

ADDENDUM

Project: Crestwood School District

Cherry Hill Baptist Church

Administration Relocation and Addition

Project No.: 3221

Date: August 15, 2023

Addendum Number: #002

Each Bidder's proposal amount shall include the work described herein.

This Addendum is hereby made a part of the Contract Documents. Unless otherwise indicated, the work described herein shall comply with, and be equal in all respects to the original Specification and Drawings accompanying same. Include incidental work required to properly complete the work, whether stated herein or not

ARCHITECTURAL DRAWING REVISIONS

TTL - Title Page

ADD: A0.01 Code Review Plan
ADD: S6.01 Typical Steel Details

A0.01 - Code Review Plan

ADD: Sheet to drawing set

STRUCTURAL DRAWING REVISIONS

S0.01 – General Structural Notes

REVISE: Refer to clouded areas for drawing revisions.

S2.10 – Foundation Plan

REVISE: Refer to clouded areas for drawing revisions.

S2.11 – Roof Framing Plan

REVISE: Refer to clouded areas for drawing revisions.

S4.01 - Typical Mansory Sections

REVISE: Refer to clouded areas for drawing revisions.

S6.00 - Typical Sheet Details

REVISE: Refer to clouded areas for drawing revisions.

S6.01 - Typical Sheet Details

ADD: Sheet to drawing set.

<u>S7.00 – Sections and Details</u>

REVISE: Refer to clouded areas for drawing revisions.



Section 00 0115 List of Drawings

ADD: A0.01 Code Review Plan **ADD**: S6.01 Typical Steel Details

Section 01 2100 Allowances

1.05 Allowances Schedule

CHANGE: B. Electrical Contingency Allowance:

FROM: Include the stipulated sum/price of \$40,000 for temporary power equipment required

to power Phase 1 work while Phase 2 and 3 are under construction.

T0: Include the stipulated sum/price of \$70,000 for temporary power equipment required

to power Phase 1 work while Phase 2 and 3 are under construction.

ADD: C. Winter Conditions Contingency Allowance: Include the stipulated sum/price of \$30,000 for

temporary plywood exterior enclosures, insulation, temporary heating appliance, temporary

heating fuel, etc.

Section 12 2400 Window Shades

ADD: Added approved substitute. Please refer to attached signed substitution request form.

GENERAL

Editable Forms

Editable forms are attached.

RFI Questions and Answers

RFI Question 5: Many of the walls are spec'd to be built to the deck. I see the flat roof portion of the building

on page A9.52 detail 1,2 & 3 and can see how tall the walls are to be. I'm not sure about the walls under the existing wood trusses though like page 9.02 detail 1, 2 & 3. Do the walls go all the way to wood roof deck on an angle or are the existing trusses drywalled on the bottom

chord and the walls to be built to that height?

RFI Answer 5: The conditions vary in different areas of the pitched roof portion of the building. You should

assume the walls extend to the underside of the sloping roof sheathing above. Coordinate between the roof plan and floor plan for approximate locations. The exact conditions are

unknown due to spline ceilings and insulation.

RFI Question 6: Is the district going to provide a Winter Condition allowance?

RFI Answer 6: There will be a \$30,000 Winter Condition allowance. Refer to attached Spec Section 01 2100

Allowances

RFI Question 7: Since the district is purchasing the Electrical Equipment will they be responsible for the Arch

Flash Study as noted in section 26 0573?

RFI Answer7: The Arc Flash Study is the contractor's responsibility per the specification.

RFI Question 8: I am requesting the Sign Schedule for the Crestwood School District/Cherry Hill Baptist

Church/Administration Relocation and Addition project. After looking through the bid package I was unable to locate the schedule and would greatly appreciate your help. I look forward to

hearing from you.



- RFI Answer 8: Ehresman Architects does not provide a sign schedule as the specification clearly requires the following. Refer to Spec Section 10 4100 Signage, 2.02 Signage Applications, Letter B Provide a sign for every doorway, whether it has a door or not, not including corridors, lobbies, and similar open areas. The final signage wording, numbering, and location will be confirmed during the submittal process.
- RFI Question 9: Who is responsible to demo the existing material from the floor?
 - a) Ceramic Tile
 - b) Carpet
 - c) VCT
- RFI Answer 9: The general contractor is required to remove any flooring that is not ACM.
- RFI Question 10: In regards to the landscaping drawings, is the tree protection required at every tree, or just specific ones? If it is just specific trees, is there a note that indicates which trees are required to be protected?
- RFI Answer 10: The tree protection was specified for proximity of construction. Refer to Landscape Drawing L.301, Note 8 that points at the fencing lines. Exact fencing locations will be confirmed in the pre-construction meeting.
- RFI Question 11: Will students be in the building during construction?
- RFI Answer11: Yes, please refer to the phasing plan for timeframes in which students will occupy the building.
- RFI Question 12: Who is responsible for the abatement?
- RFI Answer12: Abatement will be done by the owner's separate vendor
- RFI Question 13: I am reaching out regarding the sheet waterproofing on the Cherry Hill Baptist Project. It looks to me like a performance spec. do I need to supply a substitution request form for this project? I have a couple customers interested in using Polyglass on this project. I have attached our submittal package (Polyglass USA Mapethene) Please let me know if you need anything else regarding this. Thanks!
- RFI Answer 13: It is the intention that any sheet waterproofing used as part of the air barrier system be acceptable to the air barrier manufacturer as part of their complete system. The submitted product is acceptable as a sheet waterproofing membrane used independent of the air barrier system.

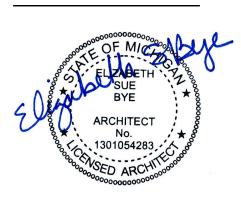
Crestwood School District Cherry Hill Baptist Church

Administration Relocation and Addition

Crestwood School District 1045 North Gulley Rd. Dearborn, MI, 48127 Contact Name: Penny Morgan, CFO

Contact Phone: (313) 278-2349

ARCHITECT:





LANDSCAPE ARCHITECT:



CIVIL ENGINEER:



STRUCTURAL ENGINEER:



MECH. / ELECT. ENGINEER:



TECHNOLOGY CONSULTANT





Dearborn, MI, 48127

LOCATION PLAN



APPLICABLE CODES:

MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS:	2015 EDITION
MICHIGAN BUILDING CODE:	2015 EDITION
MICHIGAN PLUMBING CODE:	2018 EDITION
MICHIGAN MECHANICAL CODE:	2015 EDITION
NATIONAL ELECTRIC CODE (WITH MICHIGAN PART 8 RULES):	2017 EDITION
MICHIGAN UNIFORM ENERGY CODE:	2015 EDITION
ASHRAE 90.1-2013:	
LIFE SAFETY CODE 101:	2012 EDITION
FEDERAL ADA LAW:	CURRENT ED.
ACCESSIBLE AND USABLE BUILDINGS & FACILITIES (ANSI A117.1):	2009 EDITION
LICENSING RULES FOR CHILD CARE CENTERS	2019 EDITION
REHABILITATION CODE	

USE GROUP:

EXISTING USE: A-3 RELIGIOUS & I-4 CHILDCARE
NEW USE: B BUSINESS & I-4 CHILDCARE

ZONING DISTRICT:

R-1 SINGLE FAMILY RESIDENTIAL

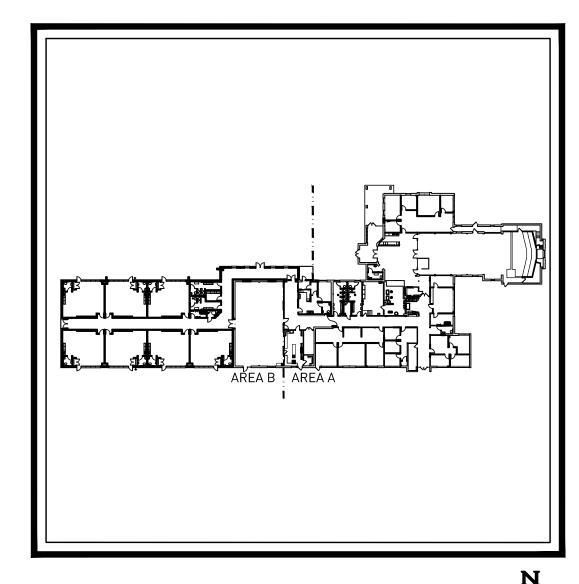
CONSTRUCTION TYPE:

TOTAL FLOOR AREA:

EXISTING FLOOR AREA: 17,711 SF

ADDITION FLOOR AREA: 8,905 SF

TOTAL FLOOR AREA: 26,616 SF (GROSS FLOOR AREA)



BUILDING KEY PLAN

BUILDING HEIGHT:

EXISTING: ± 19'-3" TO MIDPOINT OF HIGHEST SLOPE
ADDITION: ± 15'-0" TO TOP OF PARAPET

DEFERRED SUBMITTALS:

PER SECTION 107.3.4.1, ANY REQUIRED SUBMITTALS WILL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ASSUMING THE DUTIES OF CONSTRUCTION SUPERVISION AT THE APPROPRIATE TIME.

1. FIRE ALARM SYSTEMS

LIST OF ALTERNATES:

ALTERNATE #1: BOARD ROOM IMPROVEMENTS
THE PORTION OF WORK TO BE ADDED TO THE BASE PROPOSAL INCLUDES THE FOLLOWING.
ALL FINISHES, MECHANICAL, ELECTRICAL, AND TECHNOLOGY WORK AS INDICATED ON THE
DRAWINGS TO IMPROVE THE BOARD ROOM. CONTRACTOR TO REFER TO DRAWINGS AND /
OR SPECIFICATIONS FOR FURTHER INFORMATION.

LIST OF DRAWINGS

M0.01	MECHANICAL STANDARDS AND DRAWING INDEX
MD2.11	PLUMBING DEMOLITION PLAN (PART A)
MD3.11	HVAC PIPING DEMOLITION PLAN (PART A)
MD3.12	HVAC PIPING DEMOLITION PLAN (PART B)
MD4.11	SHEET METAL DEMOLITION PLAN (PART A)
MD4.12	SHEET METAL DEMOLITION PLAN (PART B
M2.01	UNDERGROUND PLUMBING PLAN (PART A)
M2.02	UNDERGROUND PLUMBING PLAN (PART B)
M2.11	PLUMBING PLAN (PART A)
M2.12	PLUMBING PLAN (PART B)
M3.11	HVAC PIPING PLAN (PART A)
M3.12	HVAC PIPING PLAN (PART B)
M4.11	REFRIGERANT PIPING PLAN (PART A)
M4.12	REFRIGERANT PIPING PLAN (PART B)
M5.11	SHEET METAL PLAN (PART A)
M5.11-ALT	SHEET METAL PLAN (PART A) - ALTERNATE
M5.12	SHEET METAL PLAN (PART B)
M6.01	MECHANICAL DETAILS
M6.02	MECHANICAL DETAILS
M6.03	MECHANICAL DETAILS
M7.01	MECHANICAL SCHEDULES
M7.02	MECHANICAL SCHEDULES

FLECTRICAL DRAWING

L0.01	LEED INIOAL STAINDAINDS AID DIAWING
E0.02	ELECTRICAL STANDARD SCHEDULES
ED0.03	ELECTRICAL SITE DEMOLITION PLAN
E0.03	ELECTRICAL SITE NEW WORK PLAN
E0.04	ELECTRICAL COMPOSITE PLAN
ED1.11	ELECTRICAL DEMOLITION PLAN (PART A
ED1.12	ELECTRICAL DEMOLITION PLAN (PART B
E2.11	LIGHTING PLAN (PART A)
E2.12	LIGHTING PLAN (PART B)
E3.11	POWER PLAN (PART A)
E3.12	POWER PLAN (PART B)
E5.01	ONE LINE DIAGRAM
E5.02	PANEL SCHEDULES
E5.03	PANEL SCHEDULES
E7.01	ELECTRICAL DETAILS AND DIAGRAMS
E7.02	ELECTRICAL DETAILS AND DIAGRAMS
E7 02	ELECTRICAL DETAILS AND DIACRAMS

E7.03 ELECTRICAL DETAILS AND DIAGRAMS E7.04 ELECTRICAL DETAILS AND DIAGRAMS E7.05 ELECTRICAL DETAILS AND DIAGRAMS

TECHNOLOGY DRAWINGS:

T2.10 STRUCTURED CABLING SYSTEM COMPOSITE FLOOR PL
T2.11 STRUCTURED CABLING SYSTEM FLOOR PLAN (PART A)
T2.12 STRUCTURED CABLING SYSTEM FLOOR PLAN (PART B)
T7.01 STRUCTURED CABLING SYSTEM DETAILS
TP2.10 PUBLIC ADDRESS SYSTEM COMPOSITE FLOOR PLAN
TP2.11 PUBLIC ADDRESS SYSTEM FLOOR PLAN (PART A)
TP2.12 PUBLIC ADDRESS SYSTEM FLOOR PLAN (PART B)
TY2.10 SECURITY SYSTEMS COMPOSITE FLOOR PLAN

LIST OF DRAWINGS

·) _	<u>LIS</u>	T OF DRAWINGS
	TTL A0.00 A0.01	TITLE SHEET GENERAL INFORMATION CODE REVIEW PLAN
	A0.05 A0.08	COMPOSITE PHASING PLAN PROJECT IDENTIFICATION SIGN
	SURVE C1 OF 2 C2 OF 2	Y DRAWINGS: TOPOGRAPHICAL SURVEY TOPOGRAPHICAL SURVEY
	CIVIL E C1.0 C2.1 C3.1 C4.1 C5.1 C6.1	DRAWINGS: GENERAL PLAN DEMOLITION PLAN UTILITY PLAN PAVING AND LAYOUT PLAN GRADING PLAN SOIL EROSION AND SEDIMENTATION CONTROL PLA
AL NOTES	LANDS L.101 L.102 L.301 L.302 L.601 L.602 L.603	SCAPE DRAWINGS: SITE LANDSCAPE PLAN - SPECIFICATIONS SITE LANDSCAPE PLAN - SPECIFICATIONS SITE LANDSCAPE PLAN - SPECIFICATIONS
<u>^2</u>	STRUC \$0.01 \$0.02 \$0.03 \$2.10 \$2.11 \$3.00 \$4.00 \$4.01 \$6.01 \$7.00	GENERAL STRUCTURAL NOTES GENERAL STRUCTURAL NOTES SPECIAL INSPECTION SCHEDULES FOUNDATION PLAN ROOF FRAMING PLAN TYPICAL CONCRETE SECTIONS TYPICAL MASONRY SECTIONS TYPICAL MASONRY SECTIONS TYPICAL STEEL DETAILS TYPICAL STEEL DETAILS SECTIONS AND DETAILS
	ARCHI A0.11 A0.12	TECTURAL DRAWINGS: ARCHITECTURAL SITE PLAN DUMPSTER ENCLOSURE PLAN & DETAILS
	A1.10 A1.11 A1.12 A1.13 A1.14 A1.15 A1.16	REMOVALS COMPOSITE PLAN REMOVALS FLOOR PLAN (AREA A) REMOVALS FLOOR PLAN (AREA B) REMOVALS CEILING PLAN (AREA A) REMOVALS CEILING PLAN (AREA B) REMOVALS ELEVATIONS REMOVALS ELEVATIONS
R PLAN T A) T B)	A2.10 A2.11 A2.12 A2.13 A2.14	COMPOSITE FLOOR PLAN FLOOR PLAN (AREA A) FLOOR PLAN (AREA B) DIMENSION PLAN (AREA A) DIMENSION PLAN (AREA B)
•	A2.50	COMPOSITE ROOF PLAN
	A2.60 A2.61	DOOR SCHEDULE DOOR SCHEDULE
	A2.80 A3.00	CABINET SCHEDULE/DETAILS EXTERIOR ELEVATIONS
	A3.01 A3.02 A3.03	EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS
	A3.50 A3.51 A3.52	BUILDING SECTIONS BUILDING SECTIONS BUILDING SECTIONS
	A4.00 A4.01	ENLARGED FLOOR PLANS (RESTROOMS) ENLARGED FLOOR PLANS
	A5.00 A5.01 A5.02 A5.03	INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS
	A6.10	COMPOSITE RCP
	A8.10 A8.11 A8.12	COMPOSITE FINISH PLAN FINISH PLAN (AREA A) FINISH PLAN (AREA B)
	A8.50 A8.51 A8.52	ROOM FINISH SCHEDULES MATERIAL SCHEDULE WALL AND FLOOR TILE DETAILS
	A9.00 A9.01 A9.02 A9.03	EXTERIOR WALL SECTIONS EXTERIOR WALL SECTIONS EXTERIOR WALL SECTIONS EXTERIOR WALL SECTIONS
	A9.10 A9.11 A9.12 A9.13 A9.14	EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR DETAILS STANDARD EXTERIOR DETAILS
	A9.50 A9.51 A9.52 A9.55	INTERIOR WALL SECTIONS INTERIOR WALL SECTIONS INTERIOR WALL SECTIONS PORTAL WALL SECTIONS
	A9.60 A9.61	INTERIOR DETAILS INTERIOR DETAILS

Addendum #2: 15 August 2023
Bidding and Permits: 31 July 2023

Title Sheet



Crestwood School District Cherry Hill Baptist Church Administration Relocation and Addition

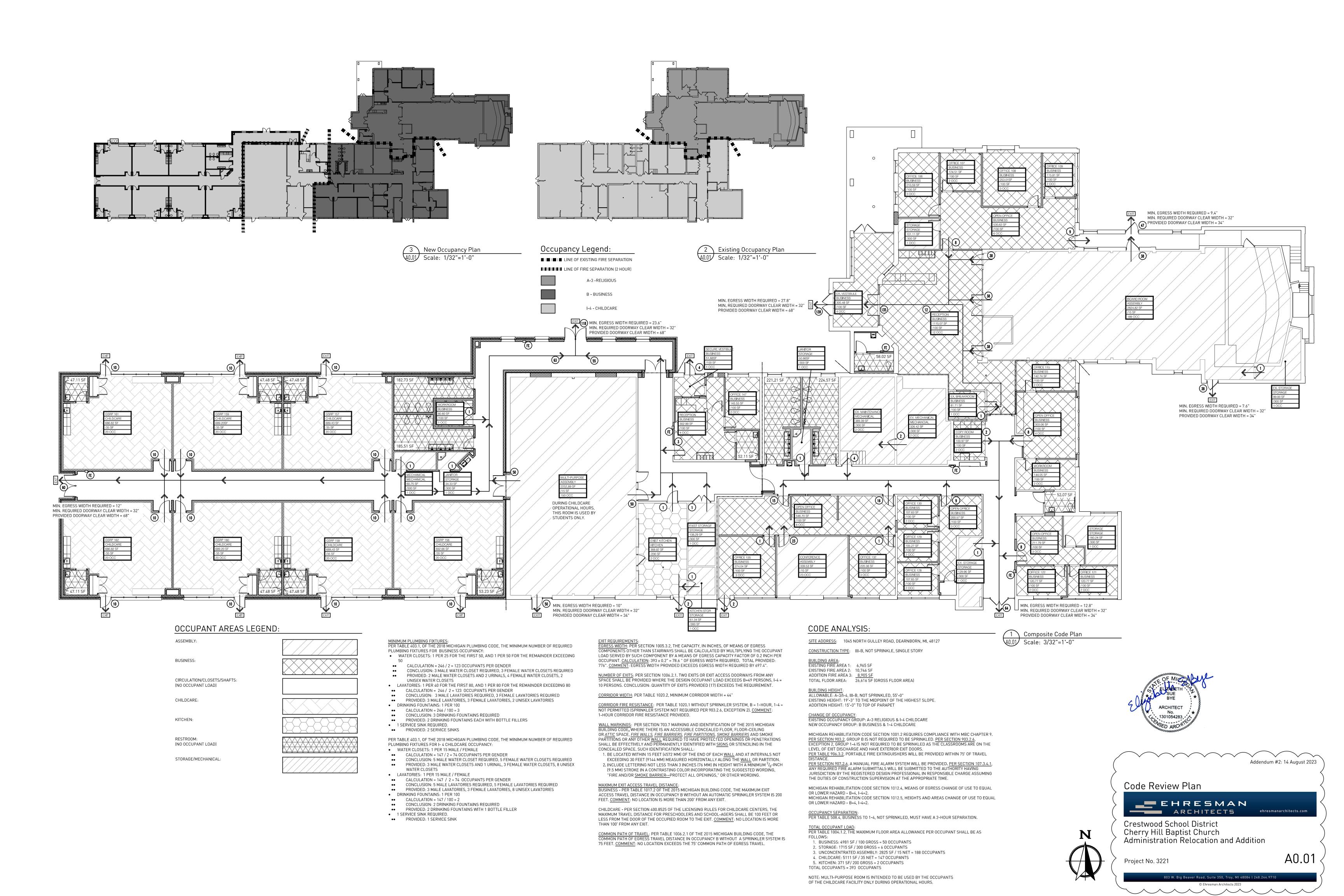
INTERIOR DETAILS

PORTAL B DETAILS

A9.65 PORTAL A DETAILS

Project No. 3221





DESIGN CRITERIA

- 1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH: **IEBC 2015 ASCE 7-10 ASCE 41-13** ACI 318-14 ACI 530-13 AISC 360-10 AISC 341-10 AISI S100 AWS D1.1, D1.3 MRS-15 AMR SDPWS-1 RISK CATEGORY III LIVE LOADS: TYPICAL ROOF 20 PSF (REDUCIBLE) TYPICAL FLOOF 100 PSF (UNREDUCIBLE) **MECHANICAL** 125 PSF (UNREDUCIBLE) HANDRAILS MAXIMUM OF SIMULTANEOUS VERTICAL AND HORIZONTAL THRUST OF 50 PLF APPLIED AT THE TOP OF THE RAILING OR 200 LBS IN ANY DIRECTION **GROUND SNOW** SNOW EXPOSURE FACTOR THERMAL FACTOR 1.0 IMPORTANCE FACTOR FLAT-ROOF SNOW 22 PSF **DESIGN SNOW** 25 PSF RAIN-ON-SNOW SURCHARGE 5 PSF SEISMIC: SEISMIC DESIGN CATEGORY IMPORTANCE FACTOR 1.25 SOIL CLASS SEISMIC FORCE RESISTING SYSTEM ORDINARY REINFORCED MASONRY SHEAR WALLS **EQUIVALENT LATERAL FORCE** ANALYSIS PROCEDURE BASIC WIND SPEED V ULT = 120 MPH IMPORTANCE FACTOR EXPOSURE CLASS INTERNAL PRESSURE COEFFICIENT, ROOF COMPONENTS: ZONE 2 ZONE 3 37 PSF SUPPORT BEAMS (A > 100 SF) 31 PSF 37 PSF 54 PSF ROOF SHEATHING (A = 50 SF) 34 PSF 45 PSF DECK FASTENERS (A ≤ 10 SF) 34 PSF 56 PSF 85 PSF WALL COMPONENTS ZONE 4 ZONE 5 A = 200 SF31 PSF 32 PSF 31 PSF A = 50 SF35 PSF 34 PSF A ≤ 20 SF 41 PSF a. THE PRESSURES LISTED ARE IN ACCORDANCE IBC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR. b. WIND PRESSURES ARE ULTIMATE DESIGN LEVEL.
 - STRUCTURAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS

c. SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES.

LOCATED. FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES.

d. SUBMIT DESIGN CALCULATIONS PREPARED BY A QUALIFIED PROFESSIONAL

- 1. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES
- 2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- 3. STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS
- 4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS, IF DISCREPANCIES ARE ENCOUNTERED. OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- 5. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF
- 6. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
- 7. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- 8. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
- 9. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- 10. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
- 11. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 12. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING
- 13. NO HOLES, NOTCHES, BLOCK-OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
- 14. PENETRATIONS SHALL BE CAST-IN-PLACE AND SHALL NOT BE PERMITTED EXCEPT AS SHOWN IN THE STRUCTURAL DRAWINGS.

15. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH PARTY SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH CONDITIONS IN FIELD, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.

SUBMITTALS

- 1. SUBMITTALS ARE:
- a. CONCRETE MIX DESIGNS
- b. MATERIAL PRODUCT DATA FOR STRUCTURAL MATERIALS
- c. CONCRETE AND MASONRY REINFORCING
- d. STEEL FABRICATION AND MISCELLANEOUS METALS e. JOISTS AND JOIST GIRDERS
- f. STEEL DECK
- 2. SUBMITTALS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER.
- 3. SUBMITTALS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
- 4. FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL

DELEGATED DESIGN

- 1. DELEGATED DESIGNS PER SECTION 107.3.4.1 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONALS AND REVIEWED PRIOR TO INSTALLATION.
- 2. DELEGATED DESIGNS ARE:
- a. EXCAVATION, SHORING, AND UNDERPINNING
- b. PREFABRICATED TRUSSES
- c. PRECAST CONCRETE ELEMENTS AND CONNECTIONS
- d. STEEL JOISTS AND JOIST GIRDERS e. STRUCTURAL STEEL CONNECTIONS
- f. CURTAIN WALL AND STOREFRONT SYSTEMS
- g. COLD FORMED STEEL FRAMING
- h. ROOFTOP EQUIPMENT ANCHORAGE AND CURBS
- j. STAIRS, ACCESS LADDERS, HANDRAILS, GUARDRAILS, AND GRATING
- k. BUILDING MAINTENANCE DAVIT PEDESTALS, TIE-BACKS, AND FALL ARREST SYSTEMS 3. ALL DELEGATED DESIGNS SHALL BEAR THE STAMP AND SIGNATURE OF THE QUALIFIED

PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, RESPONSIBLE FOR THE PREPARATION OF THESE DOCUMENTS. PROVIDE SIGNED AND SEALED CALCULATION TO EOR TO REVIEW.

EARTHWORK

- 1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT DATED OCT 22, 2021 BY SME (PROJECT NO. 087805.00). REPORT IS ON FILE WITH THE ARCHITECT.
- 2. SOIL PROPERTIES PER THE GEOTECHNICAL REPORT
- ALLOWABLE NET SOIL BEARING PRESSURE
- ANTICIPATE DEPTH TO ALLOWABLE SOIL BEARING 3.5 FT BELOW EXISTING GRADE FROST DEPTH
- 3. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING/BASEMENT WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED 7-DAY STRENGTH MINIMUM. BACKFILLING NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB TOP AND BOTTOM IS IN PLACE OR THE WALL IS ADEQUATELY BRACED TO RESIST LATERAL LOADS. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OR SHORING AND/OR SHEETING.
- 4. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. FREE GROUND WATER WAS NOT ENCOUNTERED IN THE BORINGS. DETAILS OF GROUND WATER INFORMATION CAN BE OBTAINED FROM THE ABOVE-MENTIONED GEOTECHNICAL REPORT. IF GROUND WATER SHOULD OCCUR DURING EXCAVATION, SPECIAL PROCEDURES SHALL BE IMPLEMENTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- 5. WHERE THERE IS NOT SUFFICIENT SPACE FOR SLOPED EMBANKMENTS, SHORING WILL BE REQUIRED. SEE THE GEOTECHNICAL REPORT FOR INFORMATION REGARDING THE DESIGN. AND INSTALLATION OF THE SHORING. SHORING THAT IS NOT PART OF THE PERMANENT BUILDING SUPPORT IS THE CONTRACTOR'S RESPONSIBILITY AND OUTSIDE THIS PERMIT
- 6. CARE SHALL BE EXERCISED WHEN EXCAVATING OR GRADING ADJACENT TO EXISTING STRUCTURES OR IMPROVEMENTS TO NOT DAMAGE OR UNDERMINE FOUNDATIONS, WALLS, SLABS, UTILITIES, ETC.
- 7. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS. CISTERNS AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND. ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ALL ABANDONED FOUNDATIONS. UTILITIES AND OTHER STRUCTURES THAT INTERFERE WITH NEW CONSTRUCTION SHALL
- 8. ALL FOOTINGS AND SLABS ON GRADE SHALL BE PLACED ONTO FIRM UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL, REMOVING ANY EXISTING FILL, ORGANIC MATERIAL. OR UNSUITABLE SOILS, AS RECOMMENDED BY THE GEOTECHNICAL REPORT. EXPOSED NATURAL SOIL SHALL BE PROOF ROLLED BELOW SLABS ON GRADE.
- 9. THE SLAB ON GRADE SELECTED BY THE OWNER AT THE GROUND FLOOR LEVEL OF THIS BUILDING HAS SOME RISK OF MOVEMENT. THE SLAB OPTION CHOSEN AS PROVIDING SUITABLE PERFORMANCE AT A REASONABLE COST REQUIRES OVER-EXCAVATED FILL TO BE PLACED. SEE THE PROJECT GEOTECHNICAL REPORT FOR THE DEPTH AND SPECIFIC REQUIREMENTS.
- 10. THE PREPARATION OF THE SUBGRADE FOR THE SLAB ON GRADE SHALL BE IN STRICT ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT REFERENCED ABOVE. THE CONTRACTOR SHALL DIRECT QUESTIONS REGARDING THE SUBGRADE PREPARATION REQUIREMENTS TO THE GEOTECHNICAL ENGINEER. 11. FOUNDATION ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH WHERE AN ADEQUATE
- SOIL BEARING PRESSURE IS EXPECTED. FOOTINGS, PIERS AND/OR WALLS SHALL BE LOWERED OR EXTENDED AS REQUIRED TO REACH SOIL MEETING THE DESIGN BEARING
- SHALL BE MECHANICALLY COMPACTED IN 12" LAYERS TO 95% MAXIMUM DRY DENSITY PER ASTM D1557 AND TO THE APPROVAL OF THE INSPECTION AGENCY. 13. THE MOISTURE CONTENT OF ONSITE CLAYEY SOILS AT THE TIME OF COMPACTION SHALL

12. ALL REQUIRED BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA

BE BETWEEN 2-3% ABOVE OPTIMUM MOISTURE CONTENT. 14. ANY REQUIRED IMPORT FILL SOIL SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND

REINFORCING STEEL

SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO IMPORTING.

- 1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE "ACI DETAILING MANUAL" (SP-066) EXCEPT AS OTHERWISE SHOWN, NOTED OR SPECIFIED.
- 2. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS:

DEFORMED BARS	ASTM A615, GR 60	Fy = 60 KSI
DEFORMED BARS IN SFRS	ASTM A706, GR 60	Fy = 60 KSI
WELDED WIRE REINFORCING	ASTM A1064	Fy = 65 KSI
DEFORMED EPOXY-COATED BARS	ASTM A775	Fy = 60 KSI
DEFORMED GALVANIZED-COATED	ASTM A767	Fy = 60 KSI
BARS		
STEEL WIRE	ASTM A1064	Fy = 60 KSI
DEFORMED BAR ANCHORS	ASTM A1064	Fy = 70 KSI
WELDABLE BARS, DEFORMED	ASTM A706, GR 60	Fy = 60 KSI

3. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS: CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND 3' EXPOSED TO WEATHER OR IN CONTACT WITH GROUND #6 BARS OR LARGER 1 1/2" #5 BARS OR SMALLER NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND 1 1/2" SLABS, JOIST AND WALLS WITH #14 AND #18 BARS SLABS, JOISTS AND WALLS WITH #11 BARS OR SMALLER BEAMS, COLUMNS, PEDESTALS AND TENSION TIES 1 1/2" COLUMN VERTICAL BARS BOUNDARY ELEMENTS 1 1/2"

- 4. ALL REINFORCING IN CONCRETE USED FOR THE CONTAINMENT OF WATER SHALL BE HOT-DIP GALVANIZED OR EPOXY-COATED.
- 5. WELDING OF REINFORCING BARS TO BE IN ACCORDANCE WITH AWS D1.4
- 6. DEFORMED BAR ANCHORS (DBA) SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE IN ACCORDANCE
- 7. SUPPORTS FOR REINFORCEMENT SHALL HAVE CLASS 2 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNLESS OTHERWISE NOTED.
- 8. SUPPORTS FOR COATED REINFORCEMENT SHALL HAVE CLASS 1 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNLESS OTHERWISE NOTED.
- 9. ALL WELDED WIRE REINFORCING (WWR) SHALL BE LAPPED 2 PANELS AT EDGES AND
- 10. CONTINUOUS HORIZONTAL REINFORCING SHALL BE LAPPED AT MIDSPAN FOR TOP BARS AND DIRECTLY OVER SUPPORTS FOR BOTTOM BARS. AT DISCONTINUOUS ENDS, THE TOP STEEL SHALL BE BENT DOWN 12 BAR DIAMETERS OR 12" MINIMUM, WHICHEVER IS
- 11. FOR MAT FOUNDATIONS, REINFORCING FOR TOP BARS SHALL BE LAPPED UNDER STRUCTURAL COLUMNS AND WALLS ABOVE AND AT MIDSPAN FOR BOTTOM BARS. AT DISCONTINUOUS ENDS, THE TOP STEEL SHALL BE BENT DOWN 12 BAR DIAMETERS OR 12" MINIMUM, WHICHEVER IS GREATER.
- 12. WHERE REINFORCEMENT LENGTH IS SPECIFIED, NO SPLICES ARE PERMITTED WITHIN THE SPECIFIED LENGTH WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER.
- 13. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE. SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY, UNLESS OTHERWISE NOTED. PROVIDE FOUNDATION DOWELS TO MATCH SIZE AND SPACING OF WALL OR COLUMN REINFORCEMENT. EXTEND DOWELS A LAP SPLICE LENGTH INTO WALL OR COLUMN AND TERMINATE WITH STANDARD HOOK AT BOTTOM OF FOOTING, UNLESS OTHERWISE NOTED.
- 14. REINFORCING IN WALL FOOTINGS AND GRADE BEAMS BETWEEN COLUMNS SHALL BE DEVELOPED (Ld) INTO COLUMN FOOTINGS.
- 15. CUTTING OF REINFORCING WHICH CONFLICTS WITH EMBEDDED OBJECTS OR SLEEVES IS NOT ACCEPTABLE
- 16. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS
- 17. FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
- 18. USE TEMPLATES TO SET ALL EMBEDDED ANCHOR BOLTS, LEVELING PLATES, AND DOWEL BARS AS REQUIRED OR INDICATED ON THE DRAWINGS.
- 19. SUBMIT SHOP DRAWINGS FOR FABRICATION AND PLACEMENT OF REINFORCING STEEL INCLUDE SCHEDULES AND DIAGRAMS OF BENT BARS AND SHOW ARRANGEMENT OF REINFORCEMENT, INCLUDING CONCRETE COVER. STRUCTURAL ENGINEER'S REVIEW WILL BE FOR COMPLIANCE WITH DESIGN REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND QUANTITIES.
- 20. ALL CONCRETE NOT OTHERWISE SPECIFIED SHALL BE REINFORCED TO THE MINIMUM REQUIREMENT OF ACI 318.
- 21. REINFORCE ALL ARCHITECTURAL CONCRETE TOPPING SLABS WITH 6x6-W1.4xW1.4 WWR UNLESS OTHERWISE NOTED.

CAST-IN-PLACE CONCRETE

- 1. ALL CONCRETE WORK SHALL CONFORM TO THE CORRESPONDING EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 117, ACI 301, ACI 305.1, ACI 306.1, ACI 308.1, ACI 318 AND SP-066, UNLESS OTHERWISE NOTED.

2. CONCRETE MATERIALS SHALL CONFORM TO: CEMENT ASTM C150, TYPE I OR II **FLY ASH** ASTM C618, TYPE C OR F FINE AND COARSE AGGREGATE ASTM C33 LIGHTWEIGHT AGGREGATE ASTM C330 WATER POTABLE

WATER REDUCING ADMIXTURE

AIR-ENTRAINING ADMIXTURE

CONCRETE STRENGTHS SHALL CONFORM TO:		
INTENDEDUSE	STRENGTH (PSI)	EXPOSURE CLASS
FOOTINGS	4000	F2
FOUNDATIONS	4000	F2
SLAB ON GRADE	4000	N/A
UNLESS OTHERWISE NOTED	4000	N/A

ASTM C260

ASTM C494

NORMAL-WEIGHT 28-DAY STRENGTH UNLESS OTHERWISE NOTED. 3.THE MODULUS OF ELASTICITY OF ALL CONCRETE SHALL EXCEED 57,000 SQRT(f'c) FOR NORMAL-WEIGHT CONCRETE OR wc1.5 33 SQRT(f'c).

- 4. DRYPACK OR GROUT SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 7000 PSI.
- 5. SLAB-ON-GRADE CONSTRUCTION: LOCATE SAW-CUT CONTROL JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW, UNLESS OTHERWISE
- NOTED. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5:1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS. SEE PLAN FOR SPECIAL CASES.

THICKNESS (IN)	MAXIMUM JOINT SPACING EACH WAY (FT)
4	12
5	13
6	15
8	18
10	20
12	22
	·

- 6. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ENSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, AND EDGES OF WALLS/FOUNDATIONS PRIOR TO PLACING CONCRETE
- 7. UNLESS OTHERWISE NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS. 8. CONSTRUCTION JOINTS SHALL BE CLEAN BEFORE POUR. LOCATION TO BE APPROVED BY
- THE STRUCTURAL ENGINEER. SUBMIT LOCATION PLAN OF ALL PROPOSED JOINTS NOT INDICATED ON DRAWINGS FOR APPROVAL PRIOR TO BEGINNING WORK. 9. PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL ENSURE ALL REINFORCING AND EMBEDMENTS, INCLUDING COLUMN ANCHOR BOLTS, ARE PROPERLY LOCATED AND
- 10. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL PENETRATIONS THROUGH CONCRETE BEFORE PLACING. SECURE SLEEVES TO PREVENT MOVEMENT DURING PLACING OPERATIONS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS.

11. CONFIRM WITH ARCHITECT THAT MATERIALS TO BE EMBEDDED ARE SUITABLE FOR

- EMBEDMENT IN CONCRETE. 12. CONDUIT, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO
- REQUIREMENTS OF ACI 318, SECTIONS 20.7 AND 26.8.

- 13. DO NOT PLACE VERTICAL CONDUIT IN CONCRETE COLUMNS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER
- 14. NO ALUMINUM SHALL BE ALLOWED IN THE CONCRETE WORK UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION.
- 15. WATERSTOPS SHALL BE A FLEXIBLE BENTONITE PVC PRODUCT. ACCEPTABLE PRODUCTS INCLUDE: CETCO WATERSTOP-RX AND GREENSTREAK SWELLSTOP WESTIC BARRIER
- TECHNOLOGIES TPE-R WATERSTOP AND GREENSTREAK PVC WATERSTOP. 16. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4 INCH CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
- 17. SLOPE SLABS TO DRAINS OR FOR POSITIVE DRAINAGE IF NO DRAINS ARE PRESENT AND PROVIDE DEPRESSIONS WHERE SHOWN ON THE STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS WITHOUT REDUCING THE THICKNESS OF SLAB INDICATED. FOR SLAB-ON-GRADE DEPRESSIONS GREATER THAN 1 INCH, SEE DETAILS FOR ADDITIONAL
- 18. INTERNALLY VIBRATE ALL CAST-IN-PLACE CONCRETE EXCEPT SLABS-ON-GRADE WHICH NEED ONLY BE VIBRATED AROUND UNDER FLOOR DUCTS AND OTHER EMBEDDED ITEMS. VIBRATE TOPS OF COLUMNS.
- 19. PROVIDE VERTICAL CONTROL JOINTS IN EXPOSED CONCRETE WALLS AT A MINIMUM UNIFORM SPACING NOT TO EXCEED 25 FEET PER ACI 224.3. COORDINATE JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- 20. CONCRETE SHALL NOT BE PERMITTED TO DROP MORE THAN 5 FEET.
- 21. IF CONCRETE IS PLACED BY PUMPING, SUPPORT SHALL BE PROVIDED FOR THE HOSE. THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING AND OTHER EMBEDDED
- 22. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE WALLS SHALL BE LEFT IN PLACE FOR 7 DAYS OR MAY BE STRIPPED AFTER 3 DAYS AND COATED WITH AN APPROVED CURING COMPOUND
- 23. NO LOADS SHALL BE PLACED ON STRUCTURAL CONCRETE SLABS WITHIN 7 DAYS AFTER CONCRETE IS PLACED, AFTER CONCRETE IS PLACED. IN NO CASE SHALL THE SUPERIMPOSED CONSTRUCTION LOADS BE GREATER THAN SPECIFIED DESIGN LIVE LOADS, UNLESS THE WORK IS SHORED.
- 24. NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER 48 HOURS MINIMUM PRIOR TO ALL
- 25. CONTRACTOR SHALL SURVEY ALL CONCRETE WORK WITHIN 48 HOURS OF PLACING
- CONCRETE TO ENSURE PLACEMENT IS IN ACCORDANCE WITH PROJECT REQUIREMENTS 26. THE DESIGN AND ENGINEERING OF FORMWORK, SHORING AND RESHORING, AS WELL AS THEIR CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMS SHALL BE DESIGNED TO HAVE SUFFICIENT STRENGTH TO SAFELY WITHSTAND THE LOADS RESULTING FROM PLACEMENT AND VIBRATION OF THE CONCRETE AND SHALL ALSO BE DESIGNED FOR SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES. CONTRACTOR SHALL SUBMIT DETAILED FORMWORK SHOP DRAWINGS TO THE ARCHITECT TO BE
- REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT ONLY. 27. CONCRETE FILL THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS IS MINIMUM THICKNESS. NO ALLOWANCES HAVE BEEN SHOWN FOR ADDITIONAL CONCRETE FILL REQUIRED TO COMPENSATE FOR BEAM OR DECK DEFLECTIONS AND TO MAINTAIN
- SURFACE TOLERANCES SPECIFIED. 28. PROVIDE LIGHTWEIGHT SELF-LEVELING MATERIAL AT ELEVATED CONCRETE SLABS AND SLABS ON STEEL DECK AS REQUIRED TO MEET FLOOR FLATNESS AND LEVELNESS REQUIREMENTS. SUBMIT PROPOSED LOCATIONS AND LEVELING MATERIAL DATA FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT.
- 29. CORING OF CONCRETE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL
- 30. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST, ICE OR SNOW.
- 31. DURING WINTER CONSTRUCTION, ALL FOOTINGS SHALL BE PROTECTED FROM FROST
- PENETRATION UNTIL THE BUILDING IS ENCLOSED AND TEMPORARY HEAT IS PROVIDED. 32. GENERAL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIZE, LOCATION AND HEIGHT OF MECHANICAL EQUIPMENT PADS ON CONCRETE SLAB ON STEEL DECK AND SLAB-ON-
- 33. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.
- 34. PROVIDE SLAB COORDINATION DRAWING SUBMITTAL INDICATING COORDINATED LOCATIONS OF: MEP PENETRATIONS, SLEEVES, OPENINGS, IN-SLAB CONDUIT/DUCT (IF ALLOWED), EMBEDS, CAST-IN ANCHORS, AND OTHER ITEMS EMBEDDED OR PENETRATING STRUCTURAL ELEVATED SLABS.

EPOXY ANCHORS

- 1. INTENDED FOR USE WITH REINFORCING BARS AND THREADED RODS.
- 2. ALL EPOXY ON THE JOB, UNLESS OTHERWISE NOTED, SHALL BE 'SET-3G' AS
- MANUFACTURED BY SIMPSON STRONG-TIE (ICC ESR-4057) OR APPROVED EQUIVALENT. 3. WORKERS SHALL BE CERTIFIED FOR ANCHOR INSTALLATION EQUIPMENT AND
- PROCEDURES USING THEIR EPOXY. 4. CONTINUOUS INSPECTION IS REQUIRED FOR INSTALLATION OF REBAR OR THREADED
- 5. FOR REQUIRED HOLES, THE DIAMETERS SHALL BE PER MANUFACTURER'S REQUIREMENTS. MINIMUM HOLE LENGTH SHALL BE PER STRUCTURAL DRAWINGS, OR PER THE ICC MINIMUM (FOR MAXIMUM TENSION) IF NOT SHOWN.
- FOR HORIZONTAL HOLES COMPLETELY THROUGH WALLS OR BEAMS AND FOR TIES AROUND COLUMNS, PROVIDE A DAM AT ONE END, FLOOD WITH EPOXY AND DAM THE OTHER SIDE. VIBRATE TIES TO ENSURE FULL COVERAGE. REMOVE DAMS ONCE FLUID EPOXY HAS SET. FILL ANY VOIDS WITH ADDITIONAL EPOXY.
- 7. ALL EPOXY ANCHORS WILL BE TESTED AS FOLLOWS:
- a. 25% OF FIRST 40 ANCHORS INSTALLED AND 10% OF ALL ANCHORS THEREAFTER. b. IF ANY FAILURES OCCUR, THE PREVIOUS 10 ANCHORS INSTALLED SHALL BE TESTED AS WELL AS THE NEXT 5 ANCHORS INSTALLED, NEW INSTALLED ANCHORS WILL CONTINUE TO BE TESTED UNTIL 5 SUCCESSIVE ANCHORS PASS, AT WHICH TIME
- NORMAL TESTING OF THE REMAINING ANCHORS SHALL RESUME. TEOT VALUE

c. TEST VALUES:			
ANCHOR TYPE	TEST TYPE	TEST LOAD (LBS)	BASE MATERIAL
5/8"ø THREADED ROD*	TENSION	6,000	CONCRETE
3/4"ø THREADED ROD*	TENSION	8,500	CONCRETE
7/8"ø THREADED ROD*	TENSION	11,500	CONCRETE
1"ø THREADED ROD*	TENSION	15,000	CONCRETE
#4 REBAR**	TENSION	4,800	CONCRETE
#5 REBAR**	TENSION	7,500	CONCRETE
#6 REBAR**	TENSION	10,500	CONCRETE

* A307 ** GRADE 60

- d. ANCHORS SHALL BE ALLOWED TO CURE 48 HOURS PRIOR TO TESTING
- e. TENSION TEST SHALL BE IN ACCORDANCE WITH ASTM E488.

VALUE SHOWN, UNLESS OTHERWISE NOTED.

f. A MINIMUM OF TWO DOWELS PER WALL PER FLOOR SHALL BE TESTED g. IF ANCHOR EDGE DISTANCE IS LESS THAN 6 ANCHOR DIAMETERS, USE 1/2 THE TEST



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REF. SCALE IN INCHES

GENERAL STRUCTURAL NOTES



Crestwood School District Cherry Hill Baptist Church Administration Relocation and Addition

Owner Review

Design Development

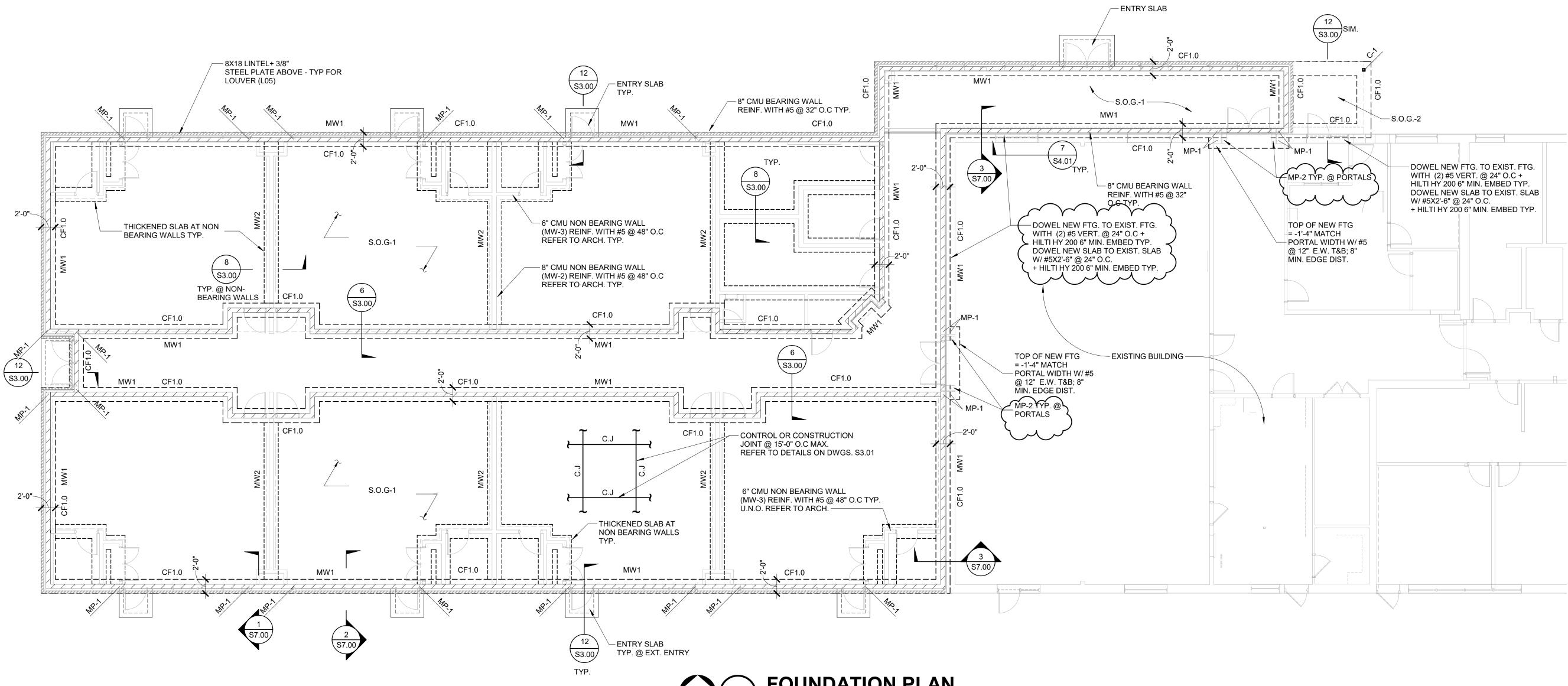
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Project. No. 4321

17 July 2023

08 May 2023





FOUNDATION PLAN 1/8" = 1'-0"

FOUNDATION NOTES:

- 1. REFERENCE FINISHED FLOOR ELEVATION = 100'-0"
- 2. TOP OF FOOTING ELEVATION = -1'- 4" UNLESS NOTED THUS [XX'-XX"]

7. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

- 3. FOOTINGS ARE DESIGNED TO BEAR ON FIRM UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL WITH A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 3,000 PSF. REFER TO GEOTECH. REPORT FOR SITE PREPARATION, OVEREXCAVATION OF EXIST. FILL REQ., AND REPLACMENT WITH ENGINEERED FILL.
- 4. CONTRACTOR SHALL COORDINATE ALL MASONRY DOWEL SIZES AND SPACING TO BE CAST INTO CONCRETE WITH MASONRY REINFORCING SHOP DRAWINGS.
- 5. REFER TO CIVIL/SITE DRAWINGS FOR PROPOSED GRADE ELEVATIONS AROUND THE PERIMETER OF THE BUILDING.
- 6. REFER TO MEP DRAWINGS FOR ALL PIPE AND CONDUIT SIZES AND LOCATIONS PASSING THROUGH AND/OR UNDER FOUNDATIONS.

8. DESIGNATIONS:

- CF1.0: 2'-0" WIDE x 3'-6" (MIN.) DEPTH WALL FOOTING REINF. W/ (3) #5 CONT. TOP & BOTT.
- C-1: HSS4X4X1/4 W/ 12"X12"X3/4 BASE PLATE AND (4) 3/4" ANCHORS 8" EMBED.; 5" MIN. PROJECTION
- MW1: 8" CMU WALL WITH #5 @ 32" O.C. PROVIDE BOND BEAMS WITH (2)#5 HORIZONTAL BARS AT TOP OF WALL, BEAM/JOIST BEARING ELEV., AND BOTT. OF WINDOW OPENING, PROVIDE (3) #5 VERTICAL BARS, ONE PER CELL, AT CORNERS AND (2) #5 VERTICAL BARS, ONE PER CELL, AT OPENINGS IN WALLS, ENDS OF WALLS AND BELOW BEAM/JOIST POCKETS. PROVIDE 3/16" LADDER TYPE HORIZ. REINF.(HOHMANN & BARNARD INC. OR EQUIVALENT) AT 16" O.C. ABOVE GRADE AND 8" O.C. BELOW GRADE (TYP.)
- MW2: 8" CMU WALL WITH #5 @ 48" O.C. PROVIDE BOND BEAMS WITH (2)#5 HORIZONTAL BARS AT TOP OF WALL AND BOTT. OF WINDOW OPENING, PROVIDE (3) #5 VERTICAL BARS, ONE PER CELL, AT CORNERS AND (2) #5 VERTICAL BARS, ONE PER CELL, AT OPENINGS IN WALLS, AND ENDS OF WALLS (TYP. FOR 8" NON-BEARING CMU WALLS; REFER TO ARCH.) PROVIDE 9 GA. LADDER TYPE HORIZ. REINF. (HOHMANN & BARNARD INC. OR EQUIVALENT) AT 16" O.C. ABOVE GRADE AND 8" O.C. BELOW GRADE (TYP.)
- MW3: 6" CMU WALL WITH #5 @ 48" O.C. PROVIDE BOND BEAMS WITH (2)#5 HORIZONTAL BARS AT TOP OF WALL, PROVIDE (3) #5
 VERTICAL BARS, ONE PER CELL, AT CORNERS AND (2) #5 VERTICAL BARS, ONE PER CELL, AT OPENINGS IN WALLS, AND ENDS
 OF WALLS (TYP. FOR 6" NON-BEARING CMU WALLS; REFER TO ARCH.) PROVIDE 9 GA. LADDER TYPE HORIZ. REINF.
 (HOHMANN & BARNARD INC. OR EQUIVALENT) AT 16" O.C. ABOVE GRADE AND 8" O.C. BELOW GRADE (TYP.)
- MP-1: 8"x16" MASONRY PIER REINF. W/ (4) #5 FULL HEIGHT VERTICAL & #3 TIES @ 16" O.C.
- MP-2: 8"x24" MASONRY PIER REINF. W/ (6) #5 FULL HEIGHT VERTICAL & #3 TIES @ 8" O.C.
- S.O.G-1: 5" SLAB ON GRADE WITH 6x6-W2.9xW2.9 W.W.F. PLACED @ 2" FROM TOP OF SLAB ON VAPOR RETARDER ON MIN. 4" COMPACTED GRANULAR FILL ON PREPARED SUB-GRADE (TYP. UNO)
- S.O.G-2: 6" SLAB ON GRADE WITH #5 @ 12" O.C. EACH WAY TOP AND BOTTOM. PLACED @ 2" FROM TOP AND BOTTOM OF SLAB ON VAPOR RETARDER ON MIN. 4" COMPACTED GRANULAR FILL ON PREPARED SUB-GRADE (TYP. UNO)

FERENCE DRAWINGS

S7.00

S7.01

- S0.01 & S0.02 GENERAL STRUCTURAL NOTES S0.03 SPECIAL INSPECTION SCHEDULES S3.00 TYPICAL CONCRETE DETAILS
- S3.00 TYPICAL CONCRETE DETAILS
 S4.00 TYPICAL MASONRY DETAILS
 S4.01 TYPICAL MASONRY DETAILS
 S6.00 TYPICAL STEEL DETAILS
 - TYPICAL STEEL DETAILS SECTIONS & DETAILS SECTIONS & DETAILS

Addendum #2	14 August 2023
Bidding and Permits	31 July 2023
Owner Review	17 July 2023
Design Development	08 May 2023

FOUNDATION PLAN

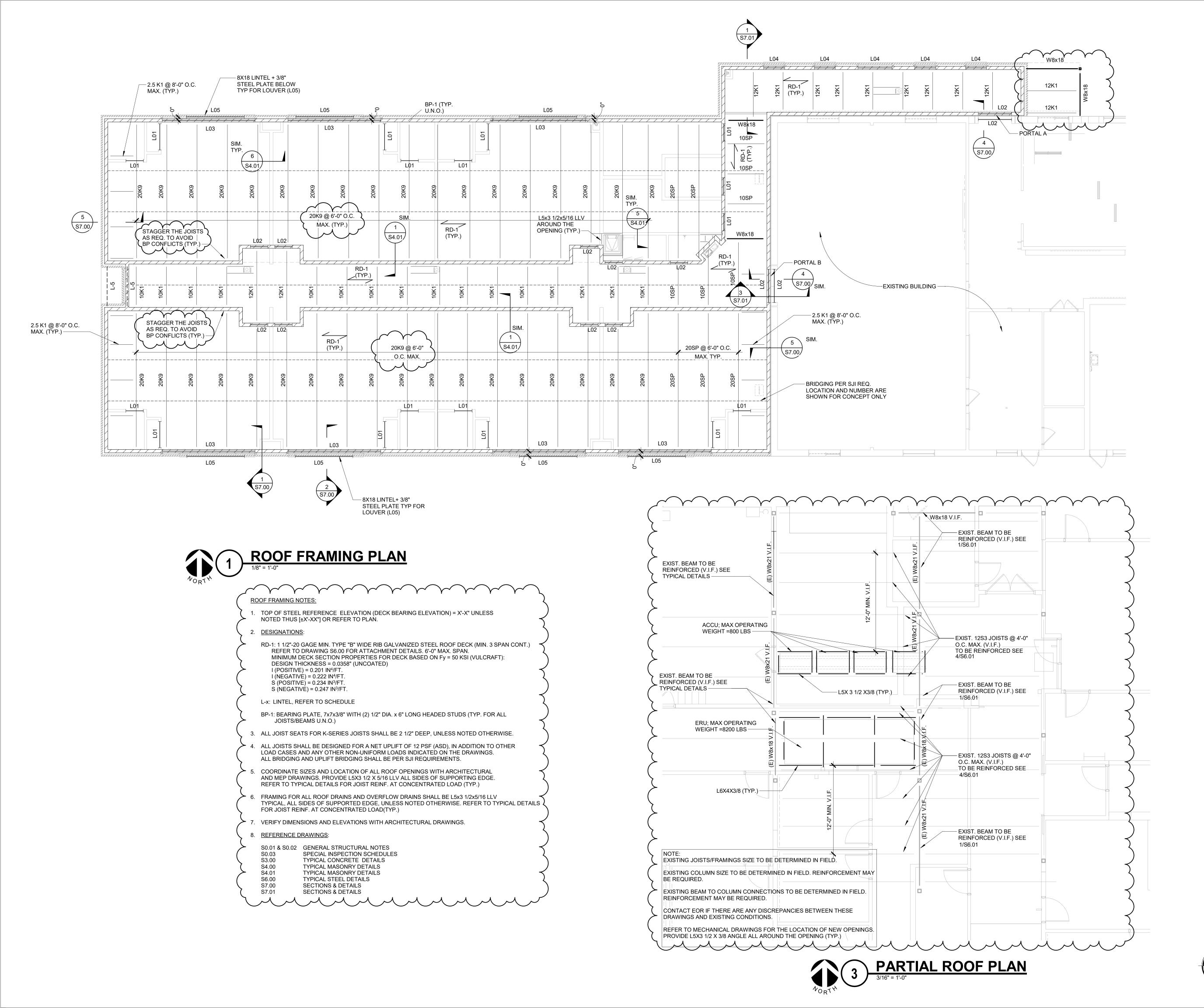


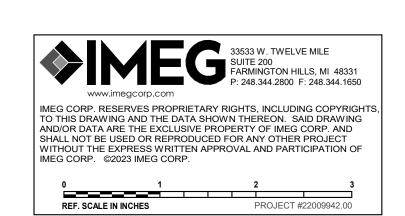
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Cherry Hill Baptist Church
Administration Relocation and Addition

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S2.10







Addendum #2	14 August 2023
Bidding and Permits	31 July 2023
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ROOF FRAMING PLAN



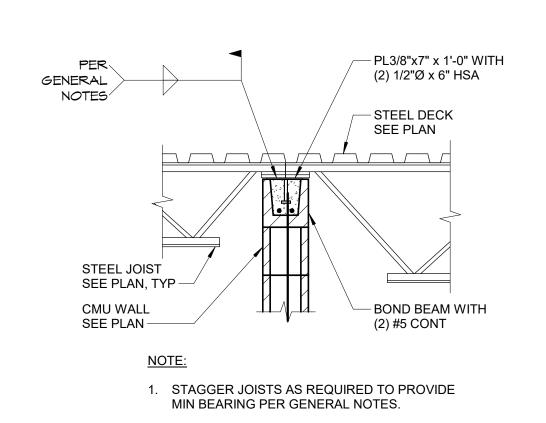
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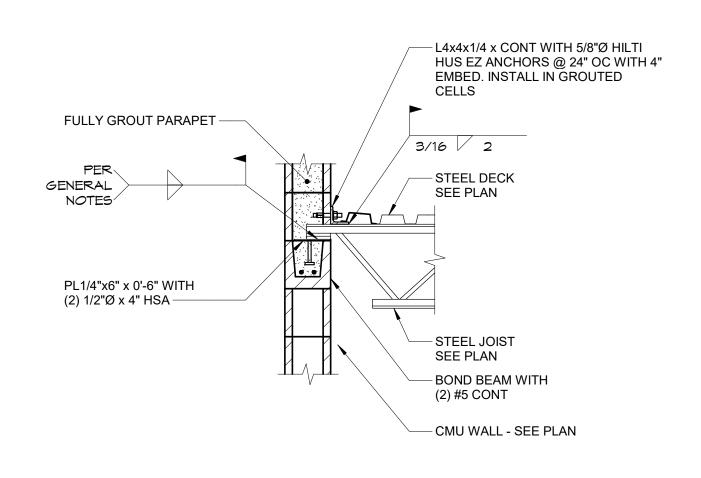
S2.11

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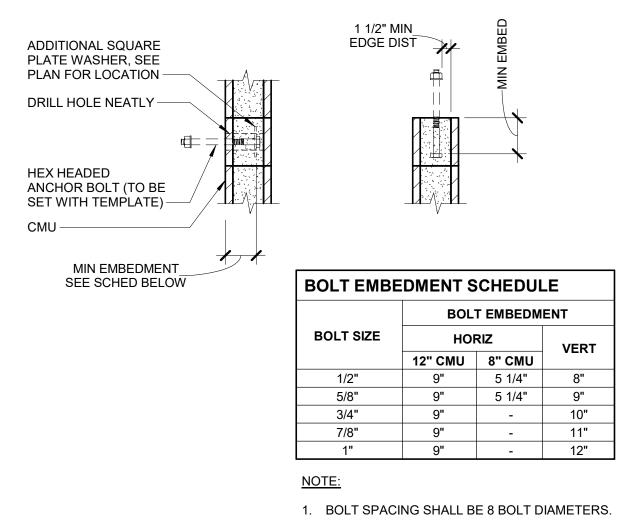






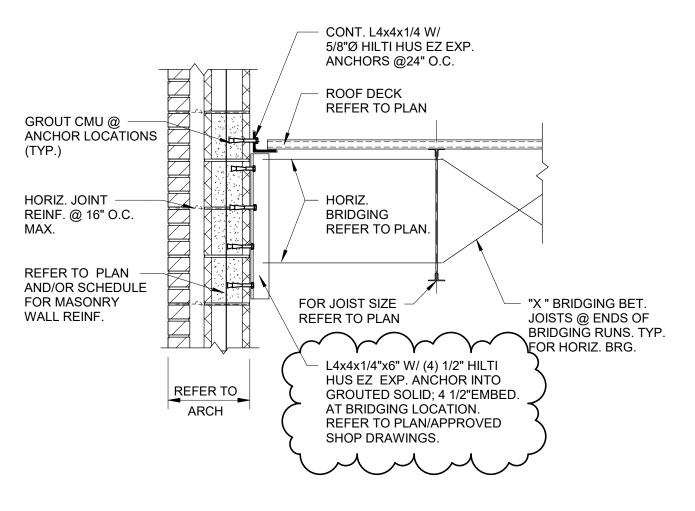
TYPICAL ROOF JOIST BEARING ON EXTERIOR CMU WALL

3/4" = 1'-0"

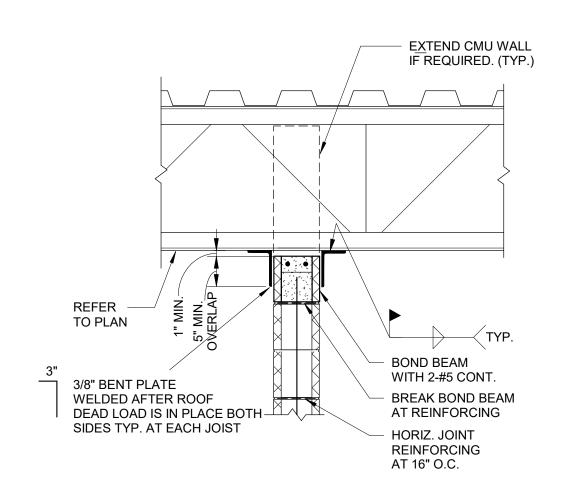


ANCHOR BOLT CAST INTO CMU DETAIL

3/4" = 1'-0"

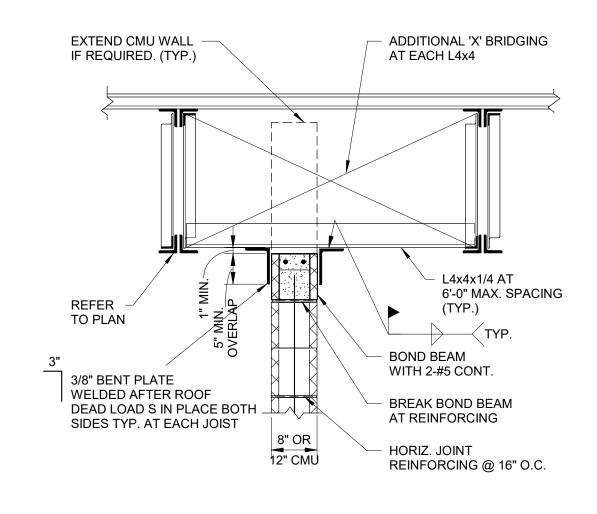


JOIST BRIDGING CONN. TO MASONRY WALL

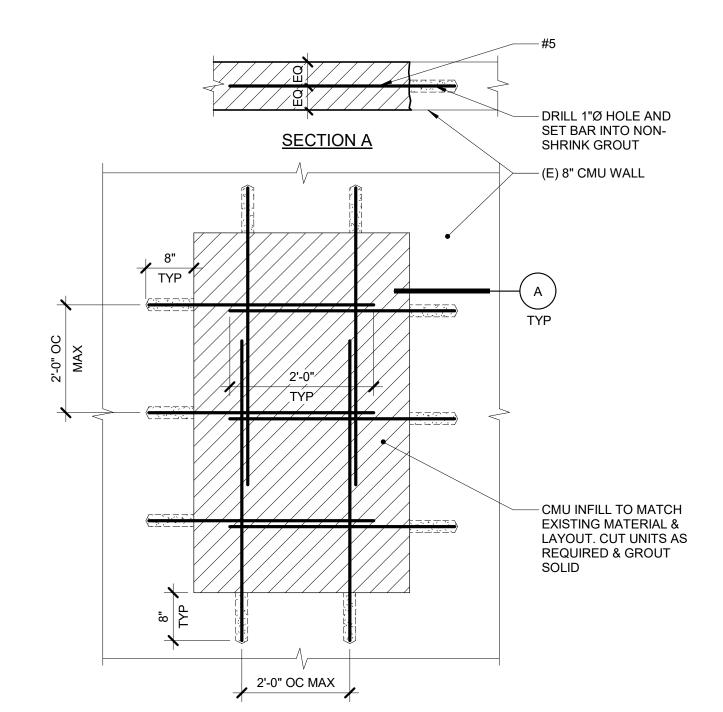


MASONRY WALL BRACE PERPENDICULAR TO JOIST

3/4" = 1'-0"



MASONRY WALL BRACE 6 PARRALEL JOIST
3/4" = 1'-0"



7 CMU INFILL ELEVATION
3/4" = 1'-0"

	MEC megcorp.com	33533 W. TWELVI SUITE 200 FARMINGTON HIL P: 248.344.2800 F	LS, MI 48331
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0	1	2	3
REF. SCALE I	N INCHES	PROJECT#	22009942.00

Addendum #2	14 August 2023
Bidding and Permits	31 July 2023
Owner Review	17 July 2023
Design Development	08 May 2023

TYPICAL MASONRY SECTIONS

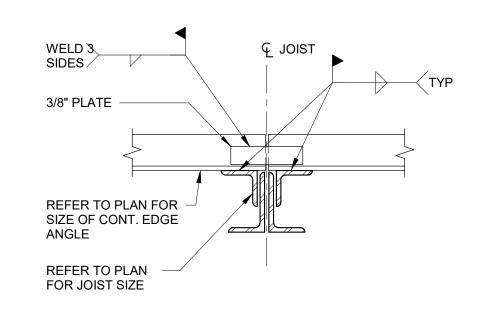


Crestwood School District Cherry Hill Baptist Church Administration Relocation and Addition

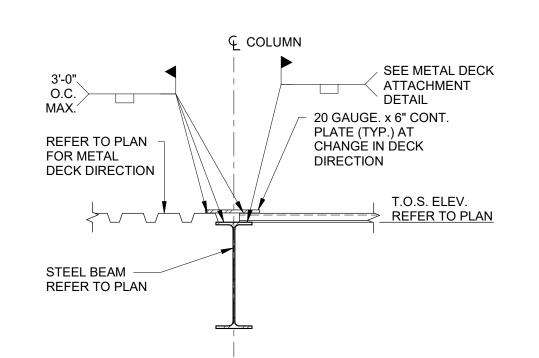




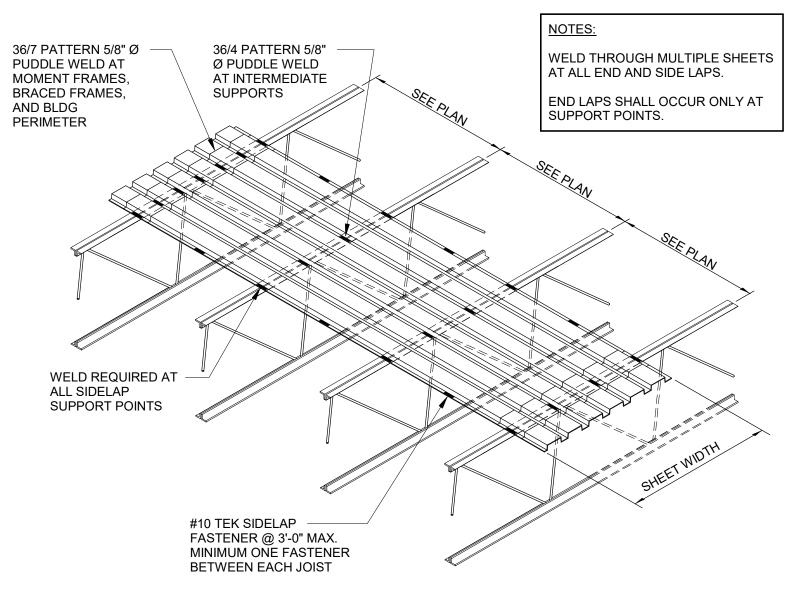
S4.01 803 W. Big Beaver Road, Suite 350, Troy, MI 48084 | 248.244.9710 © Ehresman 2022







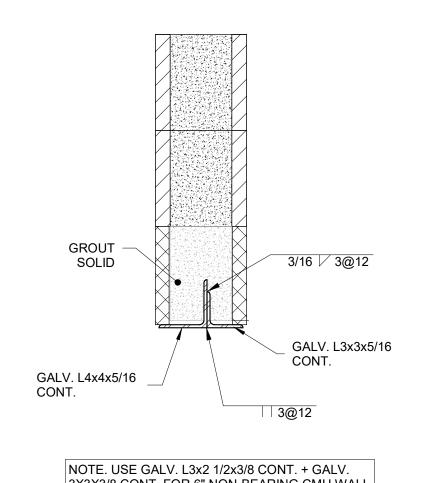
TYP. CHANGE IN DECK **DIRECTION AT ROOF**



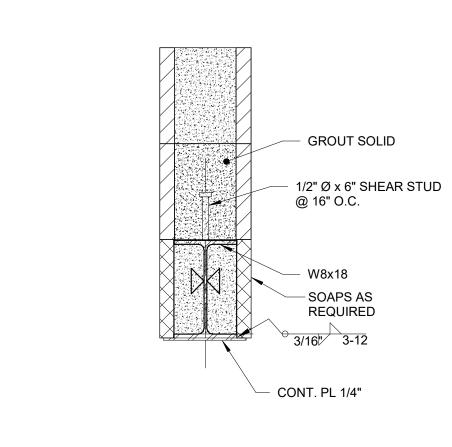
TYPICAL ROOF DECK FASTENER PATTERNS

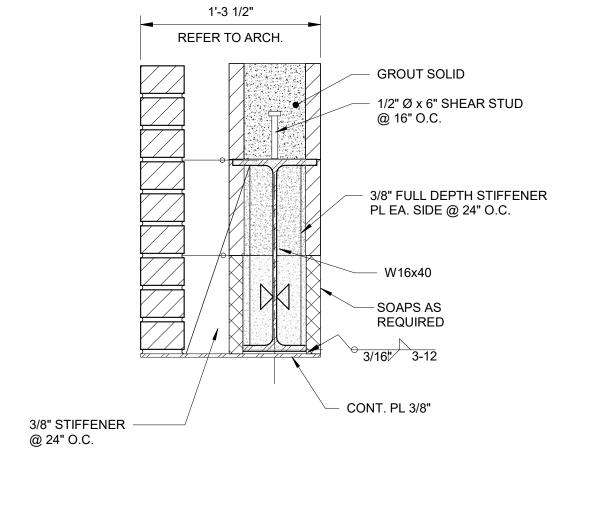
STEEL LINTEL SCHEDULE				
MARK	OPENING	SIZE	BEARING (MIN.)	REMARKS (L" x W" x T")
L01	TYPICAL INTERIOR OPENING (UP TO 5'-0" U.O.N.)	SEE DETAIL 6/S6.00	8"	7"x7"X3/8" BEARING PL. W. (2) 1/2" DIA. x 6" HD. STUDS
L02	TYPICAL INTERIOR OPENING	SEE DETAIL 7/S6.00	8"	7"x7"X3/8" BEARING PL. W. (2) 1/2" DIA. x 6" HD. STUDS
L03	EXTERIOR OPENING	SEE DETAIL 8/S6.00	8"	7"x7"X1/2" BEARING PL. W. (2) 1/2" DIA. x 6" HD. STUDS
L04	EXTERIOR OPENING UP TO 7'-0"	SEE DETAIL 9/S6.00	8"	7"x7"X3/8" BEARING PL. W. (2) 1/2" DIA. x 6" HD. STUDS
L05	EXTERIOR OPENING UP TO 7'-0"	SEE DETAIL 10/S6.00	8"	7"x7"X3/8" BEARING PL. W. (2) 1/2" DIA. x 6" HD. STUDS

PLACE LINTEL BEAMS CENTERED IN WALLS (U.O.N.) ALL EXTERIOR LINTELS SHALL BE GALVANIZED. REFER TO ARCH. DRAWINGS FOR MISC. INTERIOR LINTELS NOT SHOWN ON STRUCT. PLAN



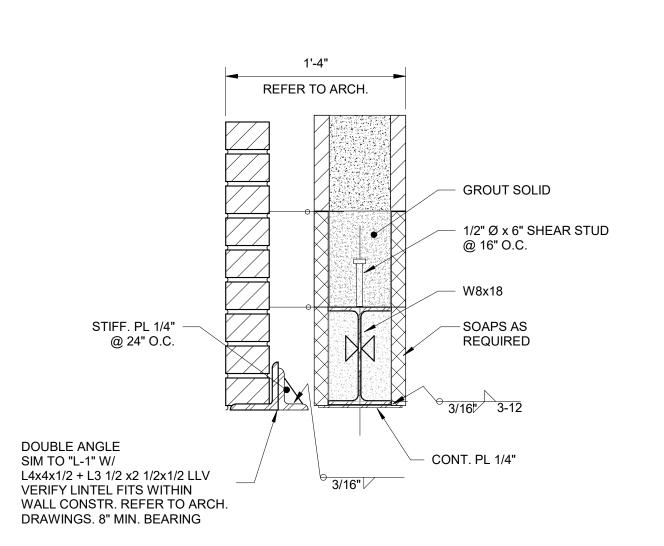
3X3X3/8 CONT. FOR 6" NON-BEARING CMU WALL INTERIOR LINTEL L-1 @ NON-BEARING WALLS
1 1/2" = 1'-0"



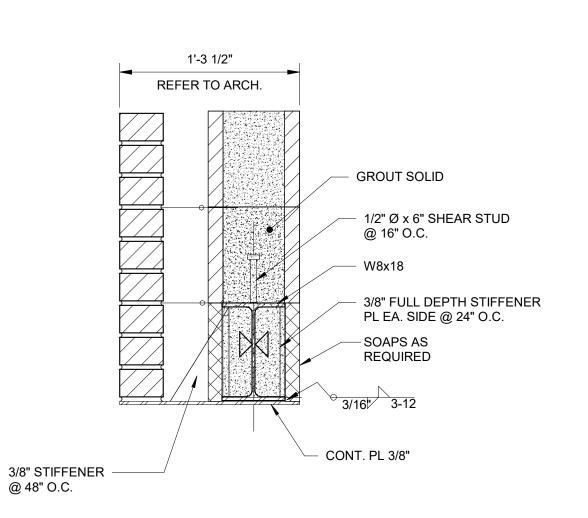


8 EXTERIOR BRICK LINTEL L-3 INTERIOR LINTEL L-2

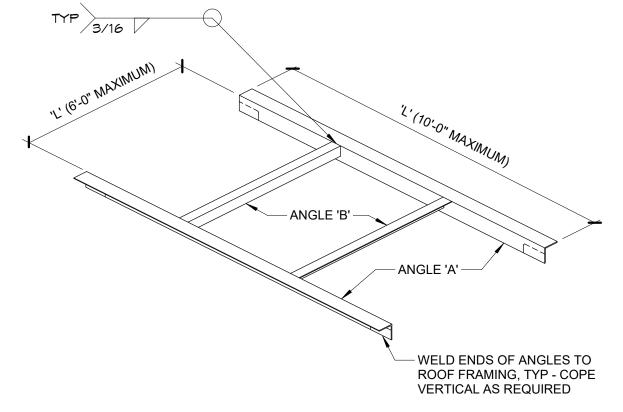
5 LINTEL SCHEDULE



9 EXTERIOR BRICK LINTEL L-4



EXTERIOR BRICK LINTEL L-5



ır.	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

NOTES:

- 1. SEE ARCHI AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION
- 2. ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

ROOF OPENING DETAIL

3/4" = 1'-0"

Design Development 08	

TYPICAL STEEL DETAILS

Addendum #2

Owner Review

Bidding and Permits

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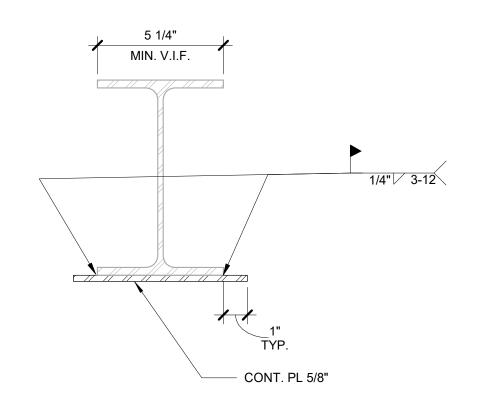
14 August 2023

31 July 2023

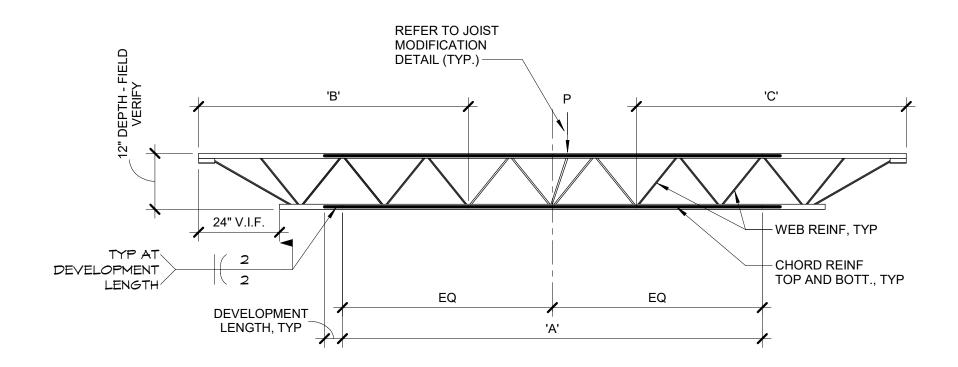
17 July 2023

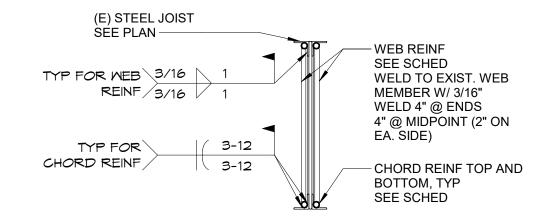
Crestwood School District Cherry Hill Baptist Church Administration Relocation and Addition

S6.00 Project. No. 4321 803 W. Big Beaver Road, Suite 350, Troy, MI 48084 | 248.244.9710



TYPICAL WIDE FLANGE BEAM REINF.





WELD REINFORCEMENT TO EXIST. JOIST PANEL POINTS & MIDWAY BETWEEN PANEL POINTS (TYP.)

IN ADDITION, USE 3", 3/16" WELD @ 6" O.C. AT EACH END; 3" @ 12" O.C. ELSEWHERE

COORDINATE WITH MECHANICAL UNIT MECHANICAL UNIT PRE-FAB CURB BY LEVEL TOP OF MECHANICAL CONTRACTOR **ELEVATION** 3/16" GALV. PLATE CONT T.O.S. ELEV. VARIES L6x4x1/2 L6x4x3/8 LLV + x 1'-0" LONG 1/4"x 6" CONT. PLATE AROUND MECHANICAL UNIT (TYP.) **BOLTS WITH PIPE** SPACER @ 24"

COORDINATE UNIT SIZE & LOCATION WITH APPROVED MECHANICAL EQUIPMENT V.I.F. EXIST. CONDITION IN FIELD AND REPORT ANY DISCREPANCY TO EOR. CONNECTIONS OF EQUIPMENT TO STRUCTURAL FRAMINGS BY OTHERS - REFER TO PLAN

TYP. MECH. UNIT PRE-FAB CURB AT JOIST

STEEL JOIST REINFORCING SCHEDULE					
RTU#	CHORD R	EINFORCING	WEB REINFORCING		
	SIZE	'A'	SIZE	'B'	REMARKS
	(2) 1"Ø GR50 RODS	FULL LENGTH	L2 1/2X2 1/2X1/4 OR (2) 5/8" GRADE 50 RODS	FULL LENGTH	
		RTU# CHORD R SIZE (2) 1"Ø	RTU# CHORD REINFORCING SIZE 'A' (2) 1"Ø FULL LENGTH	CHORD REINFORCING WEB REINFORCING	CHORD REINFORCING WEB REINFORCING

- 1. REMOVE AND REINSTALL JOIST BRIDGING AS NECESSARY TO
- INSTALL REINF MEMBERS. 2. JOIST REINF IS DUE TO NEW ROOF EQUIPMENT OR SNOW DRIFT. PRIOR TO PLACING EQUIPMENT OR BUILDING TALLER STRUCTURE
- JOIST REINF MUST BE INSTALLED. 3. SPLICE CHORD REINF SEGMENTS TOGETHER TO DEVELOP FULL CAPACITY OF MEMBER. SPLICE DETAIL BY STEEL FABRICATOR.
- 4. CONTRACTOR TO VERIFY ALL SIZES, DIMENSIONS AND JOIST CONFIGURATIONS IN THE FIELD AND NOTIFY ARCH./EOR IMMEDIATELY OF ANY DISCREPANCIES, FROM WHICH IS INDICATED
- ON THESE DRAWINGS. 5. CONTRACTOR SHALL USE CARE DURING WELDING TO ENSURE
- AGAINST DISTORTION OF EXISTING JOIST MEMBERS. 6. IN ADDITION TO REINFORCING SHOWN HERE, EXISTING JOIST SHALL ALSO BE REINFORCED WHERE NEW CONCENTRATED LOADS ARE
- LOCATED BETWEEN PANEL POINTS OF EXISTING JOISTS. 7. JOIST REINFORCING SHALL BE INSTALLED WHERE EXISTING JOIST HAS NO APPLIED DEAD OR LIVE LOADS ON IT. JOIST SHALL BE SHORED AND UNLOADED TO ITS ORIGINAL UNDEFLECTED CONDITION IF EXISTING JOIST IS SUBJECTED TO ANY LIVE LOAD OR
- DEAD LOAD AT THE TIME THAT NEW JOIST REINFORCING IS TO BE 8. JOIST SEAT TO BE REINFORCED PER TYPICAL JOIST REINFORCING

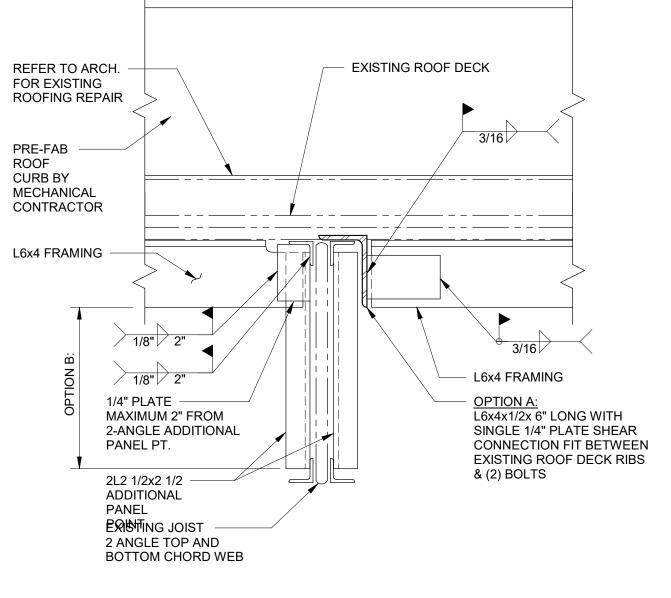
DECK

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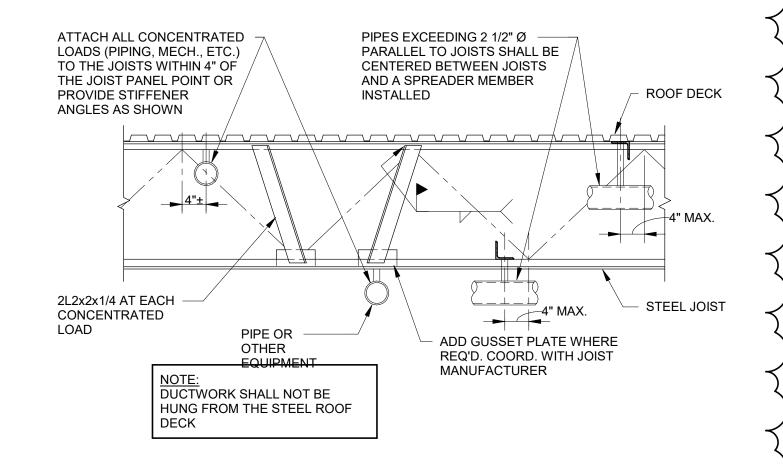
DETAILS. (TYP. @ EACH END)

ROOF OPENING

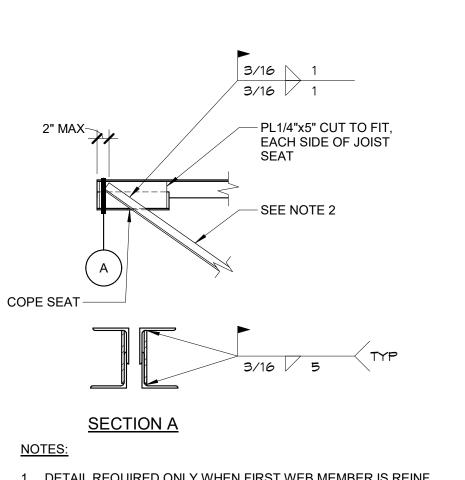
REFER TO PLAN



TYP. MECHANICAL UNIT ROOF **CURB ON EXISTING JOIST CONNECTION CONCEPT**



JOIST REINF. AT MECHANICAL PIPING



1. DETAIL REQUIRED ONLY WHEN FIRST WEB MEMBER IS REINF. 2. ANGLE REINF SHOWN TO ILLUSTRATE CONCEPT. (E) WEB NOT SHOWN FOR CLARITY.

NEW OPENING AT EXIST. ROOF JOIST

NEW L3x3x5/16 (TYP.)

OPENING (UNO)

ALL SIDES AROUND NEW

NOTE: COORDINATE SIZE AND LOCATION OF

LAYOUT. REFER TO ARCHITECTURAL DRAWINGS FOR THERMAL AND

DRAWINGS AND APPROVED EQUIPMENT

OPENINGS WITH MECHANICAL

MOISTURE PROTECTION

REQUIREMENTS.

JOIST REINFORCING DETAIL
3/4" = 1'-0"

FIELD WELD

ANGLE

PLATE

NEW 3 1/2"x 3 1/2"x3/8"

EXISTING ROOF JOIST

(NOTE: FRAMING TO

REFER TO PLAN

BEAM IS SIMILAR)

EXIST. JOIST

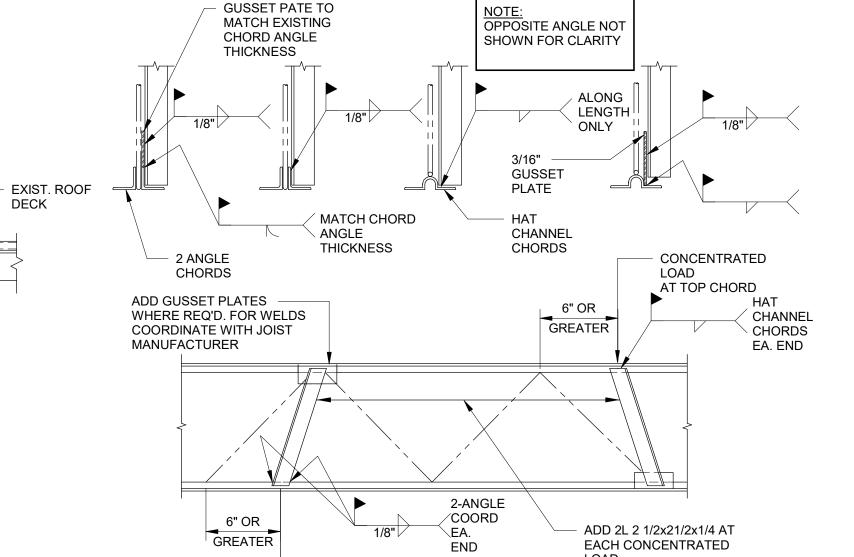
PLATE FIELD WELD TO

TO

© EXIST. JOIST

VARIES

REFER TO PLAN



NOTES:

- 1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
- 2. FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED. 3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF
- LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION. 4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING

Addendum #2 14 August 2023

TYPICAL STEEL DETAILS

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REF. SCALE IN INCHES



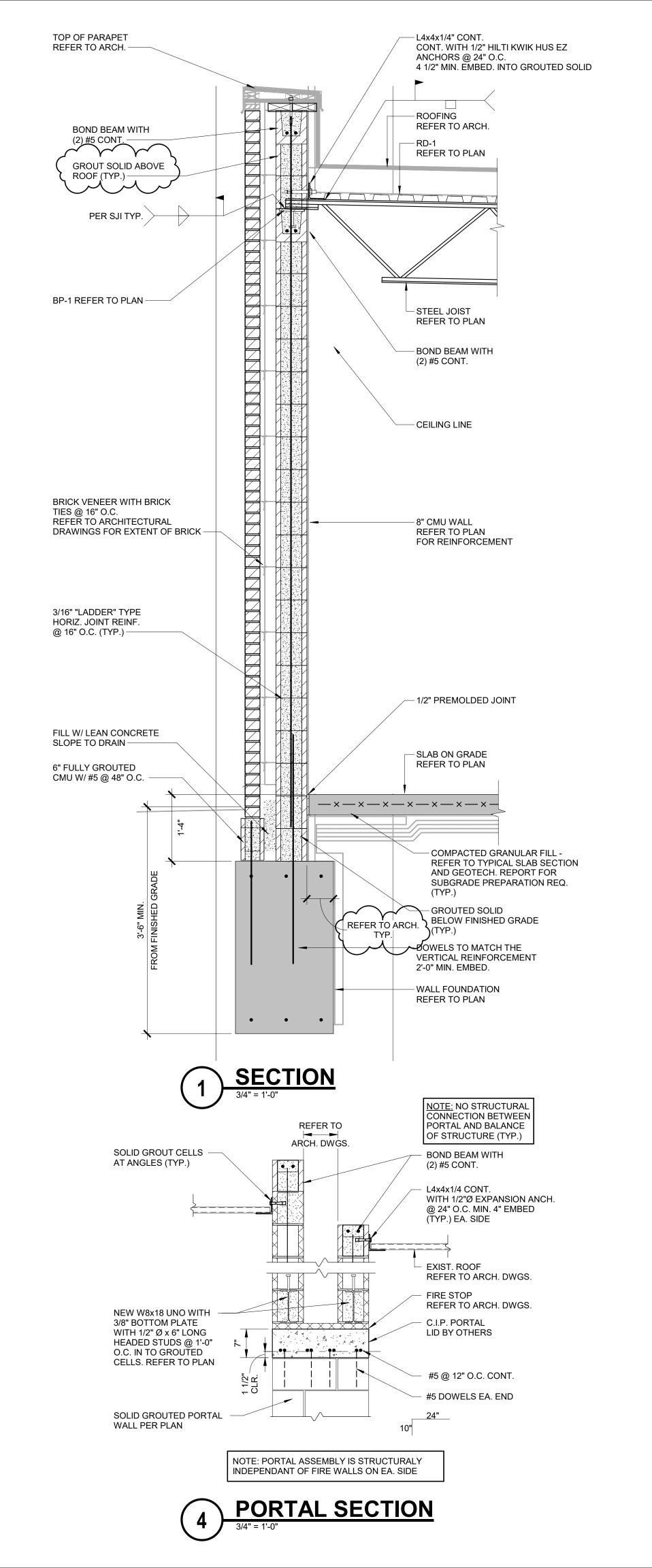
Crestwood School District Cherry Hill Baptist Church

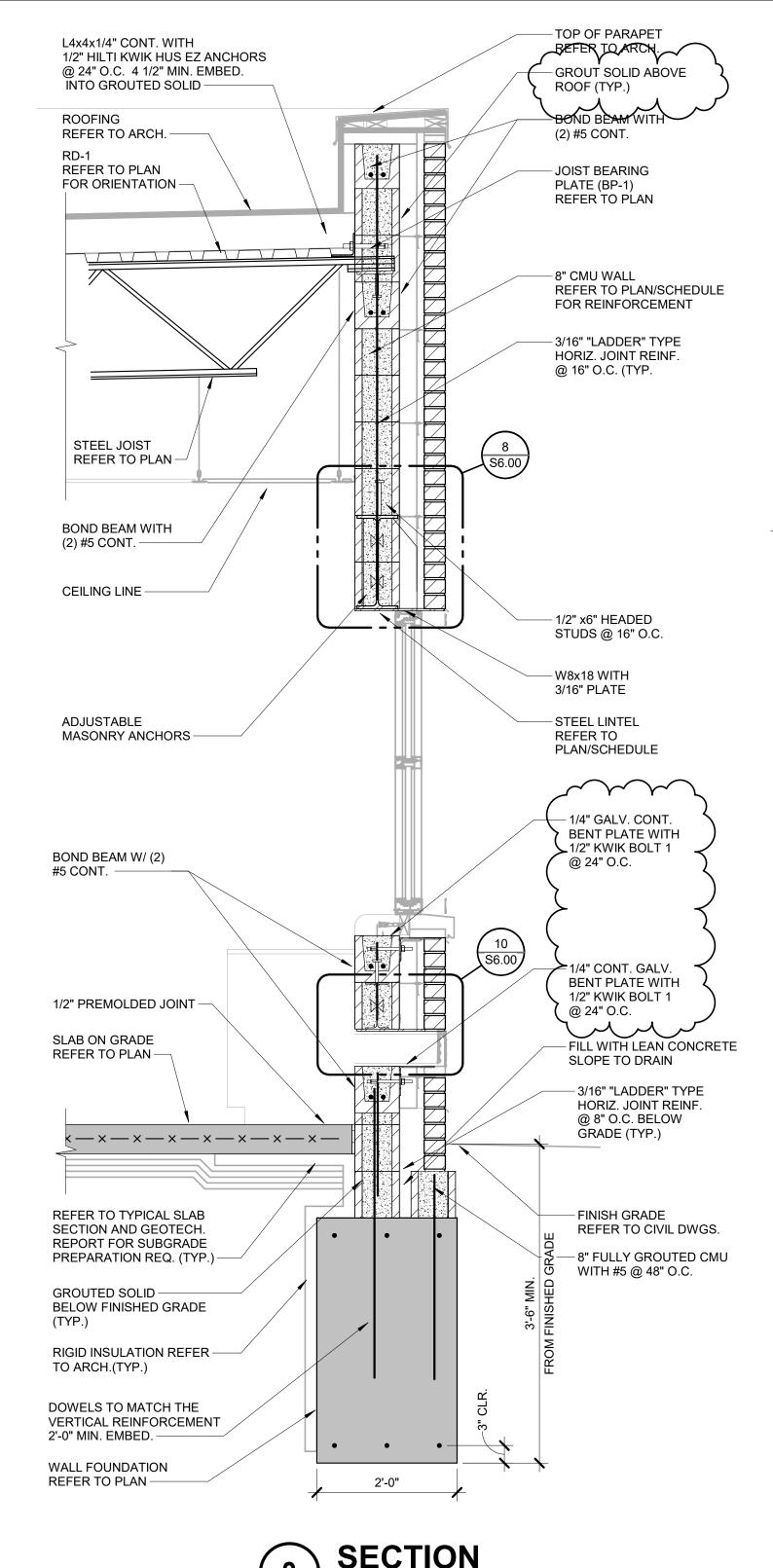
Project. No. 4321

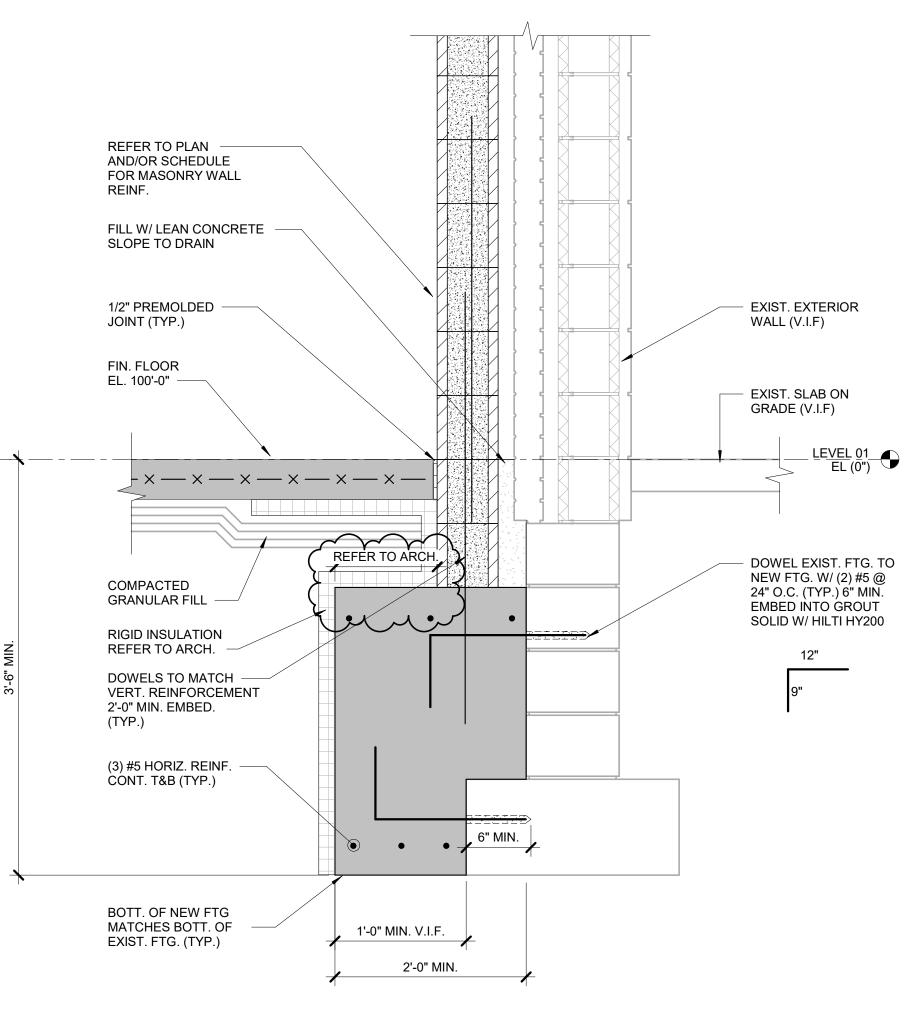
Administration Relocation and Addition

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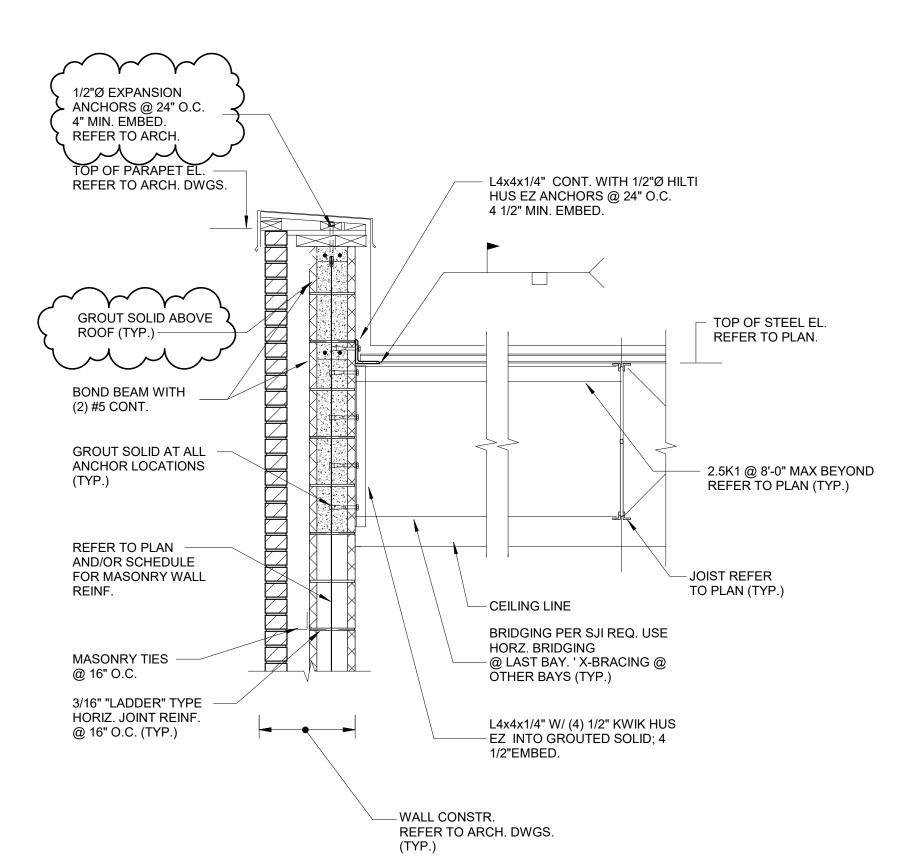
CONCENTRATED LOAD AT BOTTOM CHORD TYP. JOIST MODIFICATION DETAIL AT CONCENTRATED LOAD



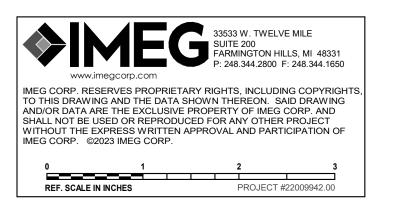




3 SECTION







Addendum #2	14 August 2023
Bidding and Permits	31 July 2023
Owner Review	17 July 2023
Design Development	08 May 2023

SECTIONS AND DETAILS



Crestwood School District
Cherry Hill Baptist Church
Administration Relocation and Addition

Project. No. 4321 **\$7.00**

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00 0115 List of Drawing Sheets Project No.: 3221

Page 1

SECTION 00 0115 LIST OF DRAWING SHEETS

TTL	TITLE	SHEET

A00 GENERAL INFORMATION
A0.01 CODE REVIEW PLAN

A0.05 PHASING PLAN

A0.08 PROJECT IDENTIFICATION SIGN

SURVEY DRAWINGS:

C1 OF 2 TOPOGRAPHICAL SURVEY
C2 OF 2 TOPOGRAPHICAL SURVEY

CIVIL DRAWINGS:

C1.0	GENERAL PLAN
C2.1	DEMOLITION PLAN

C3.1 UTILITY PLAN

C4.1 PAVING AND LAYOUT PLAN

C5.1 GRADING PLAN

C6.1 SOIL EROSION AND SEDIMENTATION CONTROL PLAN

LANDSCAPE DRAWINGS:

L.101	SITE PLAN LANDSCAPE PLAN
L.102	SITE PLAN LANDSCAPE PLAN
L.301	SITE PLAN LANDSCAPE PLAN
L.302	SITE PLAN LANDSCAPE PLAN
L.601	SITE PLAN LANDSCAPE PLAN - SPECIFICATIONS
L.602	SITE PLAN LANDSCAPE PLAN - SPECIFICATIONS
L.603	SITE PLAN LANDSCAPE PLAN - SPECIFICATIONS

STRUCTURAL DRAWINGS:

S0.01	GENERAL STRUCTURAL NOTES
S0.02	GENERAL STRUCTURAL NOTES
S0.03	SPECIAL INSPECTION SCHEDULES

00 0115 List of Drawing Sheets Project No.: 3221 Page 2

S2.10	FOUNDATION PLAN
S2.11	ROOF FRAMING PLAN
S3.00	TYPICAL CONCRETE SECTIONS
0.4.00	TVDIGAL MAGGUDY OF OTIONS
S4.00	TYPICAL MASONRY SECTIONS
S4.01	TYPICAL MASONRY SECTIONS
S6.00	TYPICAL STEEL DETAILS
S6.01	TYPICAL STEEL DETAILS
30.01	TIPIOAL STELL DETAILS
S7.00	SECTIONS AND DETAILS
ARCHITE	CTURAL DRAWINGS:
AO 11	ARCHITECTURAL SITE PLAN
A0.12	DUMPSTER ENCLOSURE PLAN & DETAILS
A1.10	REMOVALS COMPOSITE PLAN
A1.11	REMOVALS FLOOR PLAN (AREA A)
A1.12	REMOVALS FLOOR PLAN (AREA B)
A1.13	REMOVALS CEILING PLAN (AREA A)
A1.14	REMOVALS CEILING PLAN (AREA B)
A1.15	
A1.16	REMOVALS ELEVATIONS
A2.10	COMPOSITE FLOOR PLAN
A2.11	FLOOR PLAN (AREA A)
A2.12	FLOOR PLAN (AREA B)
A2.13	DIMENSION PLAN (AREA A)
A2.14	DIMENSION PLAN (AREA B
A2.50	COMPOSITE ROOF PLAN
A2.60	DOOR SCHEDULE
A2.61	DOOR SCHEDULE
AE.VI	DOOK GOILEGEL

CABINET SCHEDULE / DETAILS

A2.80

00 0115 List of Drawing Sheets Project No.: 3221 Page 3

A3.00	EXTERIOR ELEVATIONS
A3.01	EXTERIOR ELEVATIONS
A3.02	EXTERIOR ELEVATIONS
A3.03	EXTERIOR ELEVATIONS
A3.50	BUILDING SECTIONS
A3.51	BUILDING SECTIONS
A3.52	BUILDING SECTIONS
A4.00	ENLARGED FLOOR PLANS (RESTROOMS)
A4.01	ENLARGED FLOOR PLANS
A5.00	INTERIOR ELEVATIONS
A5.01	INTERIOR ELEVATIONS
A5.02	INTERIOR ELEVATIONS
A5.03	INTERIOR ELEVATIONS
40.40	
A6.10	COMPOSITE RCP
A8.10	COMPOSITE FINISH PLAN
A8.11	FINISH PLAN AREA A
A8.12	FINISH PLAN AREA B
7.01.12	
A8.50	ROOM FINISH SCHEDULE
A8.51	MATERIAL SCHEDULE
A8.52	WALL AND FLOOR TILE DETAILS
A9.00	EXTERIOR WALL SECTIONS
A9.01	EXTERIOR WALL SECTIONS
A9.02	EXTERIOR WALL SECTIONS
A9.03	EXTERIOR WALL SECTIONS
A9.10	EXTERIOR DETAILS
A9.11	EXTERIOR DETAILS
A9.12	EXTERIOR DETAILS
A9.13	EXTERIOR DETAILS
A9.14	STANDARD EXTERIOR DETAILS

A9.50	INTERIOR WALL SECTIONS
A9.51	INTERIOR WALL SECTIONS
A9.52	INTERIOR WALL SECTIONS
A9.55	PORTAL WALL SECTIONS
A9.60	INTERIOR DETAILS
A9.61	INTERIOR DETAILS
A9.62	INTERIOR DETAILS
A9.65	PORTAL A DETAILS
A9.66	PORTAL B DETAILS
MECHANIC	CAL DRAWINGS:
M0.01	MECHANICAL STANDARDS AND DRAWING INDEX
MD2.11	PLUMBING DEMOLITION PLAN (PART A)
	HVAC PIPING DEMOLITION PLAN (PART A)
MD3.12	,
MD4.11	SHEET METAL DEMOLITION PLAN (PART A)
MD4.12	SHEET METAL DEMOLITION PLAN (PART B)
M2.01	UNDERGROUND PLUMBING PLAN (PART A)
M2.02	UNDERGROUND PLUMBING PLAN (PART B)
1112.02	ONDEROROGID I EUMBIRO I EAR (I ART D)
M2.11	PLUMBING PLAN (PART A)
M2.12	PLUMBING PLAN (PART B)
IVIZ. 12	I LOWDING I LAN (I ANT D)
M3.11	HVAC PIPING PLAN [PART A)
M3.11	HVAC PIPING PLAN [PART B)
IVIJ. 12	TIVAC FIFING FLAN [FANT B)
M4.11	REFRIGERANT PIPING PLAN (PART A)
	•
M4.12	REFRIGERANT PIPING PLAN (PART B)
ME 44	CHEET METAL DIAN (DARTA)
	SHEET METAL PLAN (PART A)
	SHEET METAL PLAN (PART A) - ALTERNATE
M5.12	SHEET METAL PLANT (PART B)

Addendum #002

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M6.01	MECHANICAL DETAILS
M6.02	MECHANICAL DETAILS
M6.03	MECHANICAL DETAILS
M7.01	MECHANICAL SCHEDULES
M7.02	MECHANICAL SCHEDULES
M7.03	MECHANICAL SCHEDULES
M7.04	MECHANICAL SCHEDULES
M7.05	MECHANICAL SCHEDULES
M8.01	TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES
M8.02	TEMPERATURE CONTROLS
M8.03	TEMPERATURE CONTROLS
M8.04	TEMPERATURE CONTROLS
M8.05	TEMPERATURE CONTROLS

ELECTRICAL DRAWINGS:

E0.01	ELECTRICAL STANDARDS AND DRAWING INDEX
E0.02	ELECTRICAL STANDARD SCHEDULES
ED0.03	ELECTRICAL SITE DEMOLITION PLAN
E0.03	ELECTRICAL SITE NEW WORK PLAN
E0.04	ELECTRICAL COMPOSITE PLAN
ED1.11	ELECTRICAL DEMOLITION PLAN (PART A)
ED1.12	ELECTRICAL DEMOLITION PLAN (PART B)
E2.11	LIGHTING PLAN (PART A)
E2.12	LIGHTING PLAN (PART B)
E3.11	POWER PLAN (PART A)
E3.12	POWER PLAN (PART B)

PANEL SCHEDULES

ELECTRICAL DETAILS AND DIAGRAMS

ELECTRICAL DETAILS AND DIAGRAMS

ELECTRICAL DETAILS AND DIAGRAMS

ELECTRICAL DETAILS AND DIAGRAMS ELECTRICAL DETAILS AND DIAGRAMS

E5.03

E7.01

E7.02

E7.03

E7.04

E7.05

00 0115 List of Drawing Sheets Project No.: 3221 Cherry Hill Baptist Church (CHBC) Page 6 Addendum #002 E5.01 **ONE LINE DIAGRAM** E5.02 **PANEL SCHEDULES**

TECHNOLOGY DRAWINGS:

T2.10	STRUCTURED CABLING SYSTEM COMPOSITE FLOOR PLAN
T2.11	STRUCTURED CABLING SYSTEM FLOOR PLAN (PART A)
T2.12	STRUCTURED CABLING SYSTEM FLOOR PLAN (PART B)
T7.01	STRUCTURED CABLING SYSTEM DETAILS
TP2.10	PUBLIC ADDRESS SYSTEM COMPOSITE FLOOR PLAN
TP2.11	PUBLIC ADDRESS FLOOR PLAN (PART A)
TP2.12	PUBLIC ADDRESS FLOOR PLAN (PART B)
TY2.10	SECURITY SYSTEM COMPOSITE FLOOR PLAN
TY2.11	SECURITY SYSTEM FLOOR PLAN (PART A)
TY2.12	SECURITY SYTEM FLOOR PLAN (PART B)
TY7.01	SECURITY SYSTEM DETAILS

END OF SECTION

01 2100 Allowances Project No.: 3221

Page 1

SECTION 01 2100 ALLOWANCES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Contingency allowance.
- B. Inspecting and testing allowances.

1.02 RELATED REQUIREMENTS

A. Section 01 2000 - Price and Payment Procedures: Additional payment and modification procedures.

1.03 CONTINGENCY ALLOWANCE

- A. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit will be included in Change Orders authorizing expenditure of funds from this Contingency Allowance.
- B. Funds will be drawn from the Contingency Allowance only by Change Order.
- C. At closeout of Contract, funds remaining in Contingency Allowance will be credited to Owner by Change Order.

1.04 INSPECTING AND TESTING ALLOWANCES

1.05 ALLOWANCES SCHEDULE

- A. Electrical Contingency Allowance: Include the stipulated sum/price of \$40,000 for transformer revisions, verifications and upgrades with DTE.
- B. Electrical Contingency Allowance: Include the stipulated sum/price of \$40,000 \$70,000 for temporary power equipment required to power Phase 1 work while Phase 2 and 3 are under construction.
- C. Winter Conditions Contingency Allowance: Include the stipulated sum/price of \$30,000 for temporary plywood exterior enclosures, insulation, temporary heating appliance, temporary heating fuel, etc.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SUBSTITUTION REQUEST

		(During the Bidding/Negotiating Stage)
Project:	CRESTWOOD SCHOOL DISTRICT	Substitution Request Number:
	CHERRY Hun CHURCH	From: MARTHA STACK, DREIER
To:	ENDERMAN ASSOCIATES	Date: 8-10.23
	EUZAPEH S. BYE	A/E Project Number: 3221
Re:	MINDOW SUNDED	Contract For:
Specific	ation Title: WILLOW GUNDER	Description: HANGEACTURERS
Section:	122400 Page: 2	Article/Paragraph: 2-01.4.4
Manufac Trade N Attached the requ	ame: Openhors - Color has don Creature via data includes product description, specifications, drawings, est; applicable portions of the data are clearly identified. data also includes a description of changes to the Contract	Phone: 734.769.5100 FAREL TRIAL Haly Phone: 734.769.5100 FAREL ADOMB AND ARROW MODEL NO.: OPENLICHT photographs, and performance and test data adequate for evaluation of t Documents that the proposed substitution will require for its proper
 Sar Pro Pro Pay 	posed substitution has been fully investigated and determined ne warranty will be furnished for proposed substitution as for me maintenance service and source of replacement parts, as apposed substitution will have no adverse effect on other trades posed substitution does not affect dimensions and functional ment will be made for changes to building design, inclustitution.	specified product. pplicable, is available. and will not affect or delay progress schedule.
Submitte	edby: Marita Stack. DRENER	
Signed b	y: Marth Glack, Drever RA. Co	bi · CPT
Firm:	CHW INC dog CREATUR WITH	4Dowles
Address	2216 5 MOUSTRIAL HWY	
	ANN DEBOR, MICHAN	
Telephor	Draper Draper	ral is contingent upon equivalent fabric match to the following fabrics: - Sheer Weave PW455-P10 Granite (5% Open fabric) - Sunbloc Series SB9040 Gray (blackout fabric) - sample cards not provided for review at this time)
Subst	itution approved - Make submittals in accordance with Specialitation approved as noted - Make submittals in accordance wittution rejected - Use specified materials. itution Request received too late - Use specified materials.	fication Section 01 25 00 Substitution Procedures. ith Specification Section 01 25 00 Substitution Procedures.
Signed b	y: Nuecca M Van Camp	Date: 08/15/2023
Supporti	ng Data Attached: Drawings Product Data	Samples Tests Reports

Project No.: 3221 Page 1

00 4100 Bid Form

SECTION 00 4100 BID FORM

THE PROJECT AND THE PARTIES

1.01 TO:

A. Crestwood School District (Owner) 27235 Joy Road Dearborn Heights, MI 48127

1.02 FOR:

- Project: Cherry Hill Baptist Church (CHBC) Α.
- B. Architect's Project Number: 3221 1045 N. Gulley Road

Dearborn Heights, Michigan 48127

1.03 DATE: (BIDDER TO ENTER DATE)	
-----------------------------------	--

1.04 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS, TYPE OR PRINT LEGIBLY)

		,
A.	Bidd	ing Company Full Name
	1.	Bidding Contact Full Name
	2.	Address
	3.	City, State, Zip
	4.	Phone Number
	5.	Email Address

1.05 OFFER

A.	Bidde	ing examined the Place of The Work and all matters referred to in the Insters and the Bid Documents prepared by Architect for the above mention ersigned, hereby offer to enter into a Contract to perform the Work for the	ed project, we, the
			- dollars

), in lawful money of the United States of America.

- B. We have included the required Bid Bond as required by the Instruction to Bidders.
- C. We have included the required Performance Bond and Payment Bond in the Bid Amount as required by the Instructions to Bidders. The Bonds should be in the full contract sum (100%).
- D. All applicable federal taxes are included and State of Michigan taxes are included in the Bid
- Submit two (2) hard copies of the bid forms prior to 2:00 p.m. on Wednesday, August 23, 2023. Provide an electronic copy (flash drive) of the entire Proposal including, but not limited to: the Proposal Form, Contractor Qualifications Form, Bid Security, Familial Relationship Disclosure Form, Affidavit of Compliance - Iran Economic Sanctions Act Form, Unit Prices Form, and Alternates Form. If a flash drive is not included, email a copy of the bid documents to architects@ehresmanarchitects.com before noon on Thursday, August 24, 2023.

1.06 ACCEPTANCE

- This offer shall be open to acceptance and is irrevocable for 90 days from the bid closing date. Once the contract is executed, the office shall hold for the duration of the contract.
- If this bid is accepted by Owner within the time period stated above, we will:
 - Execute the Agreement within seven days of receipt of Notice of Award. 1.
 - Furnish the required bonds within seven days of receipt of Notice of Award. 2.
 - Commence work within seven days after written Notice to Proceed of this bid. 3.

00 4100 Bid Form Project No.: 3221 Page 2

- C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure. limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.
- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders: unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.07 CONTRACT TIME

- A. If this Bid is accepted, we will:
- B. Districts Desired Substantial Completion of the Work by Friday, August 30, 2024.
- C. The Districts Desired Substantial Completion date is based on the federal funding source expiration date and cannot be extended.

1.08 CHANGES TO THE WORK

- A. When Architect establishes that the method of valuation for Changes in the Work will be net cost plus a percentage fee in accordance with General Conditions, our percentage fee will be:
 - 10 percent overhead and profit on the net cost of our own Work;
 - 10 percent on the cost of work done by any Subcontractor. 2.
- B. On work deleted from the Contract, our credit to Owner shall be Architect-approved net cost plus 10 percent overhead and profit.

1.09 ADDENDA

A.	The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.			
	1.	Addendum #	Dated	·
	2.	Addendum #	Dated	
	3.	Addendum #	Dated	·
	4.	Addendum #	Dated	·

1.10 BID FORM SUPPLEMENTS

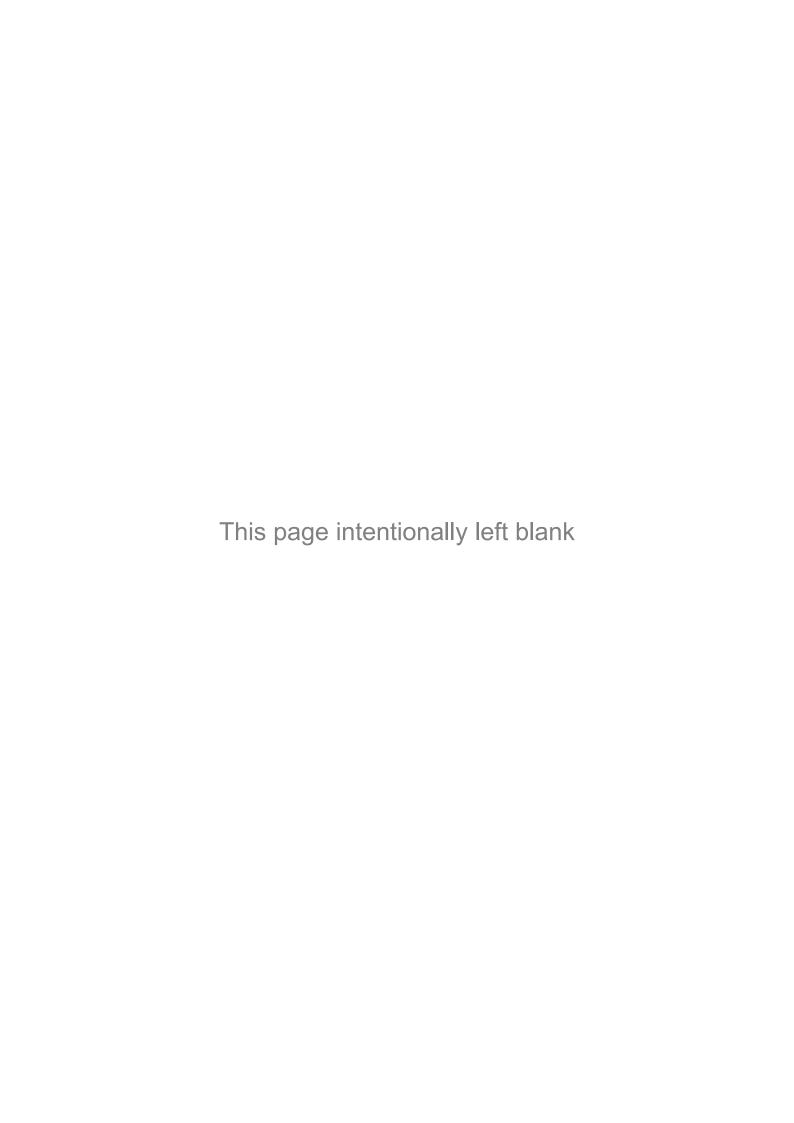
- The following information is included with Bid submission:
 - Unit Prices: 7 1.
 - 2. Alternates: 1.
- The following Supplements are attached to this Bid Form and are considered an integral part of this Bid Form:
 - Document 00 4322 Unit Prices Form: Include a listing of unit prices specifically 1. requested by Contract Documents.
 - Document 00 4323 Alternates Form: Include the cost variations to the Bid Sum applicable to the Work as described in Section 01 2300 Alternates.

1.11 BID FORM SIGNATURE(S)

A.	The Corporate Seal of
B.	
C.	(Bidder - print the full name of your firm)
D.	was hereunto affixed in the presence of:
E.	
F.	(Authorized signing officer, Title)

CONTRACTOR QUALIFICATIONS FORM

1.	Number of y Manager.	years your organization has been in business as a General Contractor/Construction
2.	Number of y	years your organization has been business under its present name.
3.	List other or	r former names under which your organization has operated.
4.		xperience – at least three (3) comparable projects of similar type, scope, size and coher reference.
REFE	RENCE #1	
Proje	ct Name:	
Locat	ion:	
Cost:		
Year:		
Conta	act Name:	Title:
Phone	e:	Email:
	RENCE #2 ct Name:	
Locat	ion:	
Cost:		
Year:		
Conta	act Name:	Title:
Phone	e:	Email:
	RENCE #3 ct Name:	
Locat	ion:	
Cost:		
Year:		
Conta	act Name:	Title:
Phone	e:	Email:



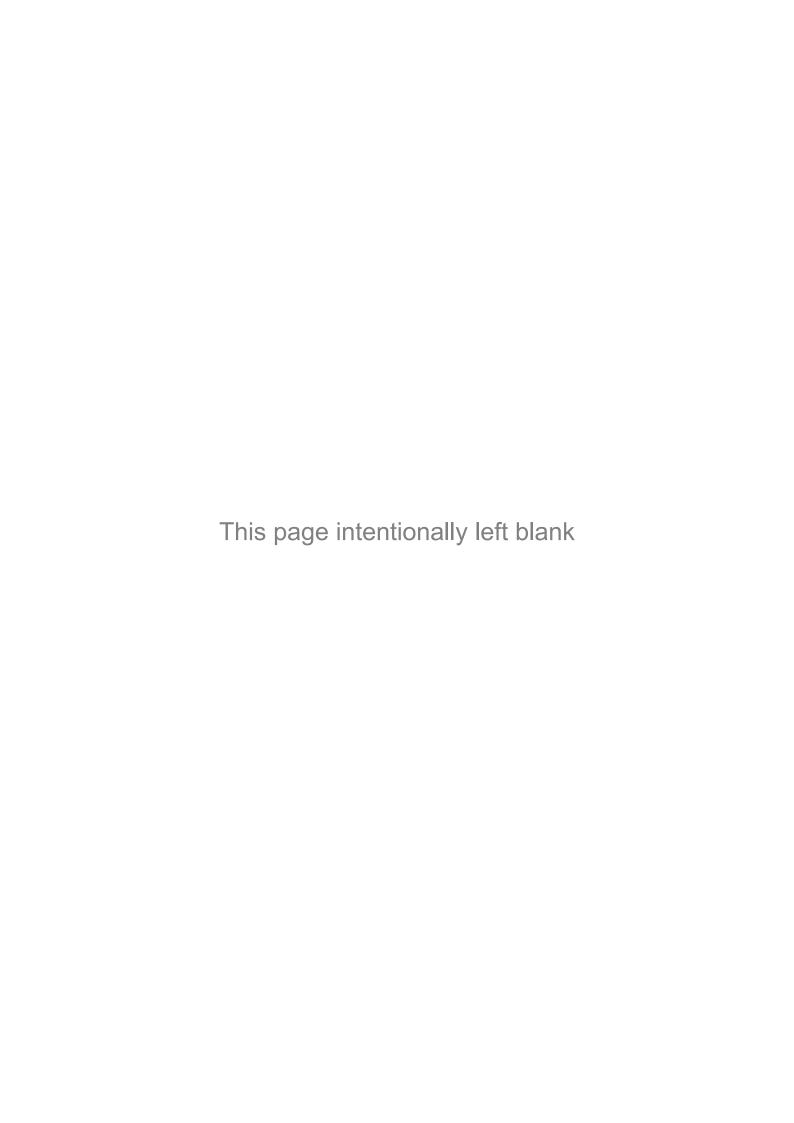
FAMILIAL RELATIONSHIP DISCLOSURE FORM Michigan Public Act No. 232 of 2004

This form MUST BE NOTARIZED as a condition of being awarded business by the Crestwood School District.

I, the undersigned, being first duly sworn, depose and say; and my signature certifies, that there are no Owners, Principals, Officers, Agents, Employees, or Representatives of this firm that have any familial relationships with any members of the Crestwood School District School Board, or its Superintendent, unless specifically noted below:

School Board Members Danielle Elzayat Hass Beydoun Salwa Fawaz Billy Amen Nadia Berry Mo Sabbagh David Williamson Superintendent Dr. Youssef Mosallam The following familial relationship is disclosed: CONTRACTOR: Name of Contractor Date:_____ COUNTY OF ____ This instrument was acknowledged before me on the _____ day of _____, 20__, by , Notary Public _____ County, ____

My Commission Expires:_____
Acting in the County of :_____



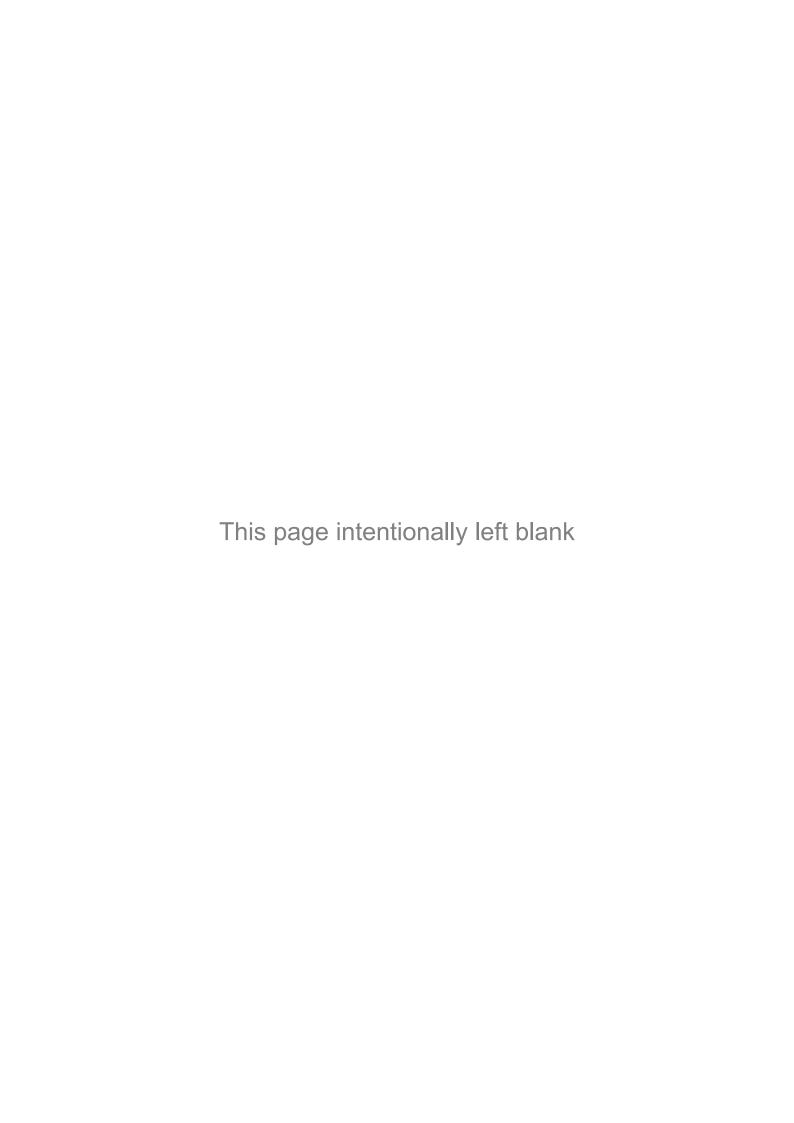
AFFIDAVIT OF COMPLIANCE - IRAN ECONOMIC SANCTIONS ACT Michigan Public Act No. 517 of 2012

The undersigned, the owner or authorized officer of the below named contractor (the "Contractor"), pursuant to the compliance certification requirement provided in this Request For Proposal (the "RFP") issued by The Crestwood School District, hereby certifies, represents and warrants that the Contractor (including its officers, directors and employees) is not an "Iran linked business" within the meaning of the Iran Economic Sanctions Act, Michigan Public Act No. 517 of 2012 (the "Act"), and that in the event Contractor is awarded a contract as a result of the aforementioned RFP, the Contractor will not become an "Iran linked business" at any time during the course of performing the Work or any services under the contract.

The Contractor further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or 2 times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the School District's investigation, and reasonable attorney fees, in addition to a fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a Crestwood School District request for proposal for three (3) years from the date it is determined that the person has submitted the false certification.

CONTRACTOR

	CONTRACTOR:	
	Name of Contractor	
	Ву:	
	lts:	
	Date:	
STATE OF)		
)ss. COUNTY OF)		
This instrument was acknowledg	ed before me on the day of, 20,	by
	, Notary	Public
	County,	
	My Commission Expires:	
	Acting in the County of :	



CONTRACTOR ENVIRONMENTAL ACKNOWLEDGEMENT FORM

HAZARD IDENTIFICATION

It is the Contractor's responsibility to be aware of all dangers or hazards associated with the work performed, the work environment, and to remove and/or control the hazard or danger prior to commencement of the work. It is also the Contractor's responsibility to review Section 00 3100 – Available Project Information, the Limited Asbestos Survey Report, and Limited Lead-Containing Paint Survey Reports included within the Project Manual. All potential or existing dangers or hazards observed by the Contractor shall be reported to the Owner's representative / contact. Any danger or hazard observed beyond the control of the Contractor is to be reported to the Owner's representative / contact immediately and the Contractor is to avoid the hazard or danger until it is eliminated or controlled.

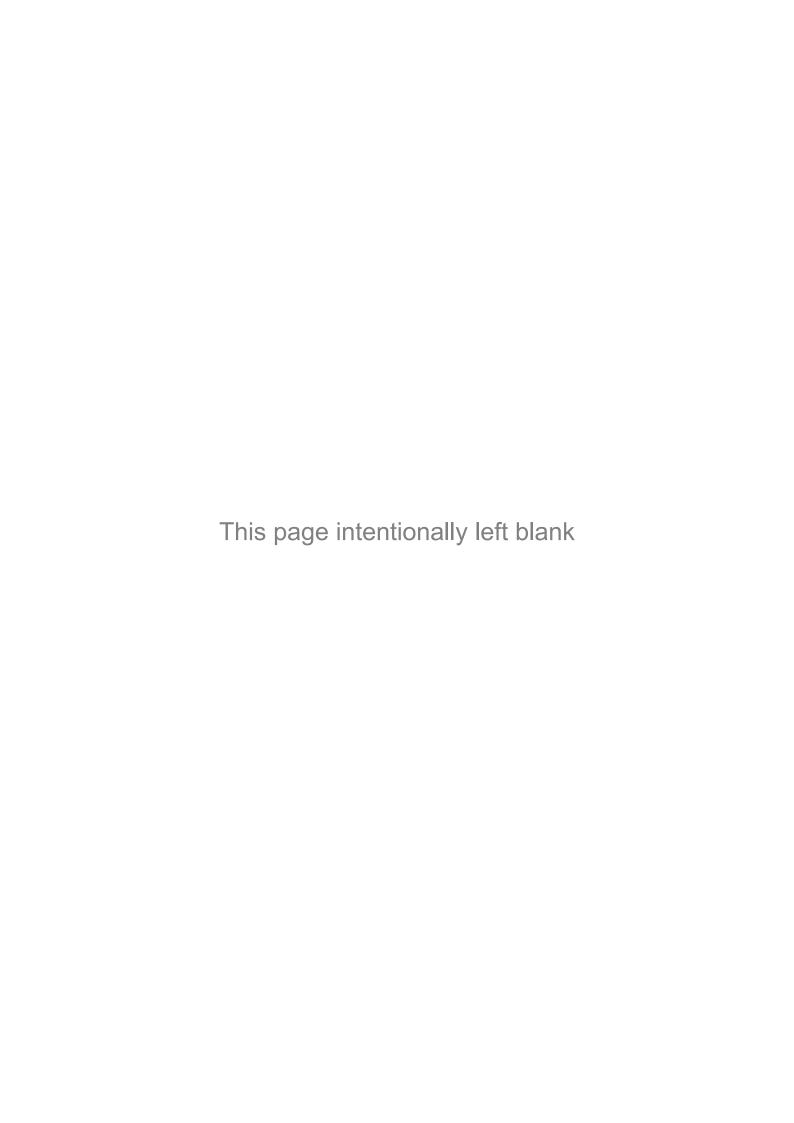
CONTRACTOR ENVIRONMENTAL ACKNOWLEDGEMENT

I have been informed of the presence of asbestos-containing materials (ACM) and presumed asbestos-containing materials (PACM) in the school. It is my understanding that known or assumed asbestos-containing materials that may be impacted during construction will be removed by the Owner. I will notify the Owner's Designated Person of any activities of my employees which represent a <u>potential</u> for disturbance of remaining asbestos-containing materials. I will also notify the Owner's Designated Person if any material is encountered that was not identified in the pre-renovation asbestos survey report and will not disturb the material until it is determined to be an ACM or non-ACM.

I have been informed of the presence of lead-containing paint (lcp) and lead-based paint (lbp) in the construction area. I understand that should my work activities involve disturbance of lbp or lcp I will comply with the requirements of 29 CFR 1926.62 "Lead Exposure in Construction". Furthermore, I will take protective measures to ensure that the activities of my employees will not result in migration of lead-containing dust outside the work area and that residual lead dust concentrations inside the work area are not elevated after the work is complete. I will provide a comprehensive work plan describing the engineering controls and work practices that will be implemented to achieve the above requirements. The work plan will be reviewed and accepted by the Owner and its environmental consultant. I am knowledgeable in the requirements for compliance with the Lead Exposure in Construction standard.

I have also been informed of the hazards of other chemicals present in the area where my employees will be working and of the appropriate protective measures. I take full responsibility for ensuring that my workers follow safe working procedures and take the appropriate protective measures. Material Safety Data Sheets have been provided where applicable. I will inform representatives of the Owner of all hazardous materials that I will bring into the school and will provide MSDS documents where applicable.

Contractor Signature
Company Name
Address
City, State, Zip Code
Date



00 4322 Unit Prices Form Project No.: 3221

Page 1

SECTION 00 4322 UNIT PRICES FORM

PAR'	TICULARS	
1.01	THE FOLLOWING IS TH	E LIST OF UNIT PRICES REFERENCED IN THE BID SUBMITTED BY
1.02	(BIDDER)	
1.03	TO (OWNER): CRESTV	VOOD SCHOOL DISTRICT
1.04	DATED	AND WHICH IS AN INTEGRAL PART OF THE BID FORM.
1.05		UNIT PRICES FOR SPECIFIC PORTIONS OF THE WORK AS LISTED TO AUTHORIZED VARIATIONS FROM THE CONTRACT
UNIT	PRICE LIST	
2.01	UNIT PRICE # 1: \$	
2.02	UNIT PRICE # 2: \$	
2.05	UNIT PRICE # 5: \$	
2.06	UNIT PRICE # 6: \$	
2.07	UNIT PRICE # 7: \$	
		END OF SECTION



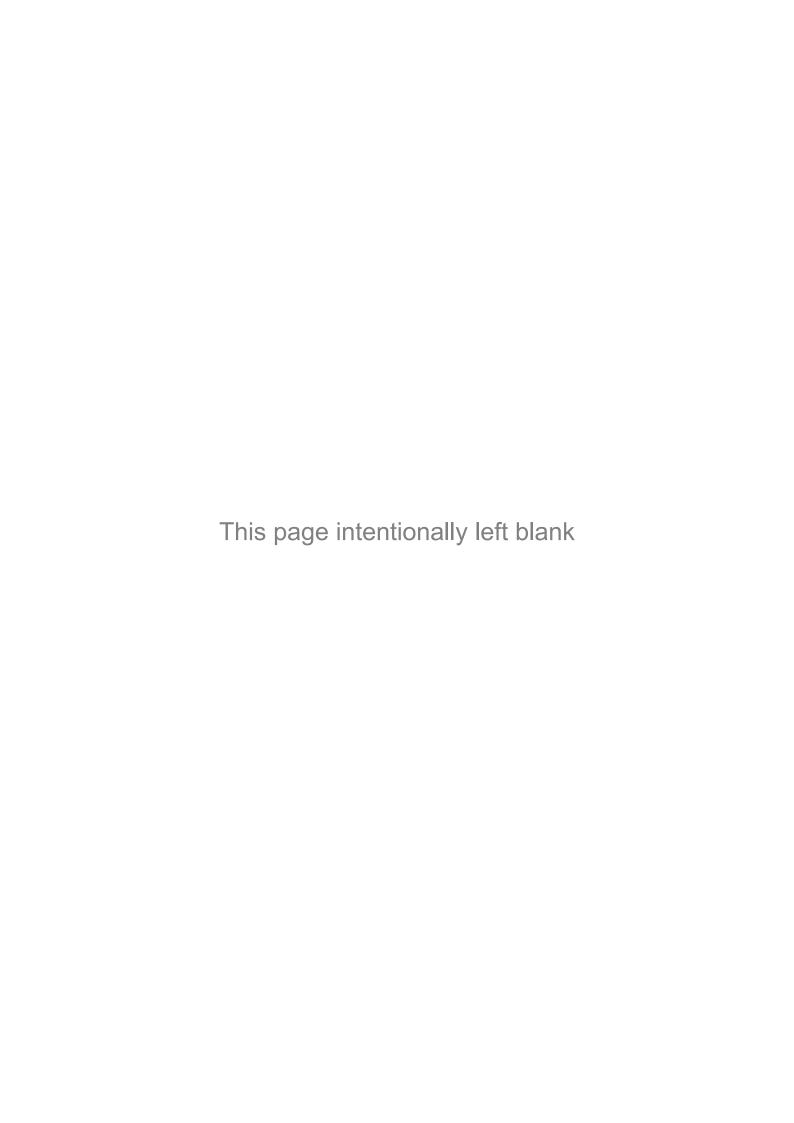
Page 1

PUBLIC ADDRESS SYSTEM UNIT PRICE SHEET

NOTE: Unit prices are to be included with bidder's original sealed proposal for the Work to be per Project Specifications. All unit prices shall include installation labor unless otherwise noted.

Item or Material	Unit Price Regular Time
Provide and install one (1) Analog Station Bridge, as specified in the RFB.	\$
Provide and install one (1) VoIP Admin Phone, as specified in the RFB.	\$
Provide and install one (1) Ceiling Speaker, as specified in the RFB.	\$
Provide and install one (1) Wall Surface Mount Speaker, as specified in the RFB.	\$
Technician (Hourly Rate)	\$
Technician (Overtime Hourly Rate)	\$
Technician (Holiday Hourly Rate)	\$

END OF UNIT PRICE SHEET



Security Systems Unit Price Sheet Project No.: 3221

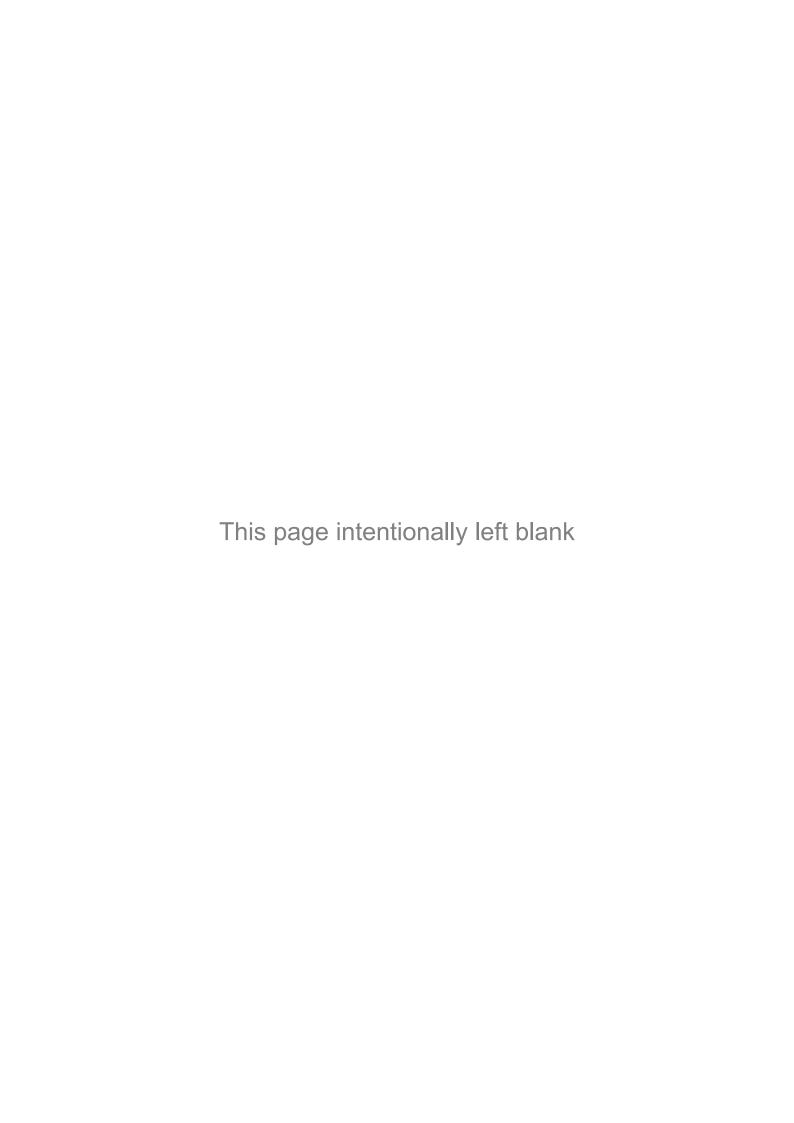
Page 1

SECURITY SYSTEMS UNIT PRICE SHEET

NOTE: Unit prices are to be included with bidder's original sealed proposal for the Work to be per Project Specifications. All unit prices shall include installation labor unless otherwise noted.

Item or Material	Unit Price Regular Time
Provide and install one (1) Access control system application blade	\$
Provide and install one (1) Access control system node	\$
Provide and install one (1) Door contact including cabling, equipment, and testing	\$
Provide and install one (1) HID iClass R40 Smart Card Reader including cabling, equipment, and testing	\$
Provide and install one (1) HID iClass R10 Mullion Smart Card Reader including cabling, equipment, and testing	\$
Provide and install one (1) Axis P3268-LV interior camera complete per specifications, excluding cabling	\$
Provide and install one (1) Axis P3268-LVE exterior camera complete per specifications, excluding cabling	\$
Provide and install one (1) Master Station complete per specifications, excluding cabling	\$
Provide and install one (1) Panic Button complete per specifications, including cabling	\$
Provide and install one (1) Remote Release complete per specifications, including cabling	\$
Provide and install one (1) Lock Down Button complete per specifications, including cabling	\$
Provide and install one (1) 1" Conduit sleeve including coring, bushings, firestop	\$
Security System Technician (Hourly Rate)	\$
Security System Technician (Overtime Hourly Rate)	\$
Security System Technician (Holiday Hourly Rate)	\$

END OF UNIT PRICE SHEET



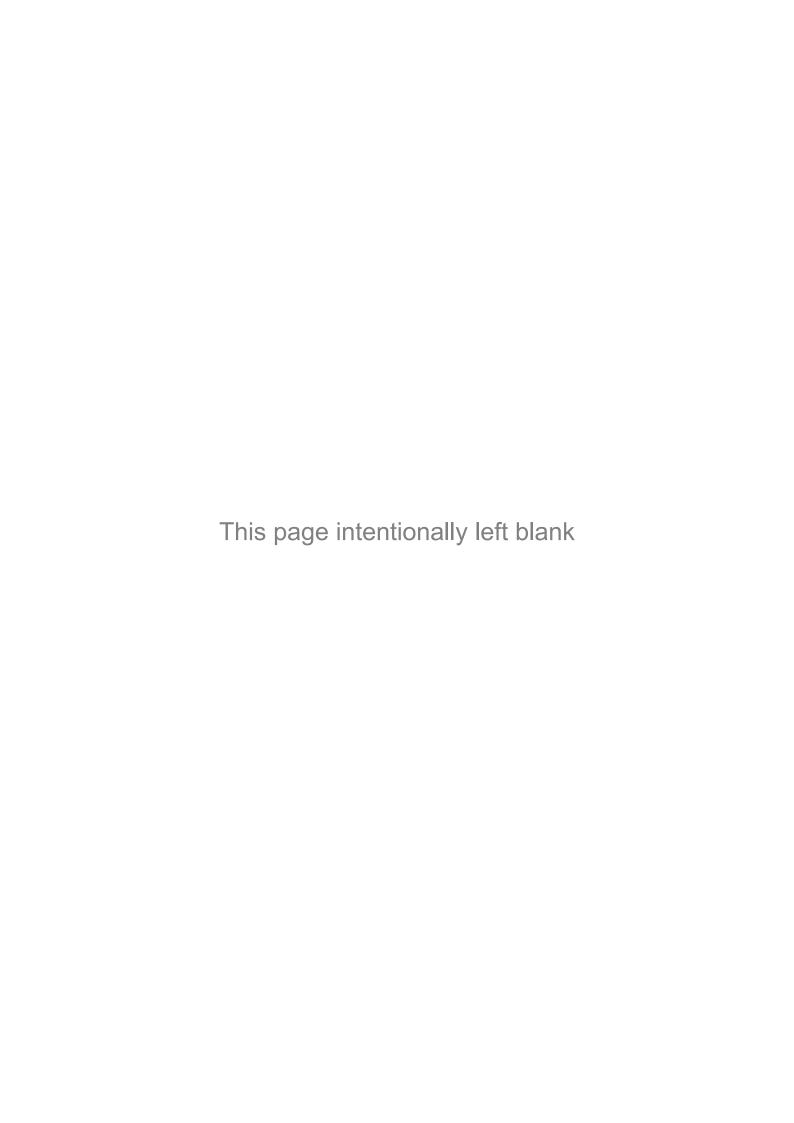
Page 1

COMMUNICATIONS CABLING UNIT PRICE SHEET

NOTE: Unit prices are to be included with bidder's original sealed proposal for the Work to be per Project Specifications. All unit prices shall include installation labor unless otherwise noted.

Item or Material	Unit Price Regular Time
Provide (1) Single Category 6 data drop including cable, jack, faceplate, etc.	\$
Provide (1) Dual Category 6 data drop including cable, jack, faceplate, etc.	\$
Provide (1) Single Category 6 data drop in the ceiling for a security camera or wireless access point including cable, jack, surface-mount box, etc.	\$
Provide (1) Dual Category 6 data drop in the ceiling for a security camera or wireless access point including cable, jack, surface-mount box, etc.	\$
Provide (1) Category 6 48-port modular patch panel, mounted	\$
Provide (1) Category 6 patch cord, 1-foot (delivered, no install)	\$
Provide (1) Category 6 patch cord, 3-foot (delivered, no install)	\$
Provide (1) Category 6 patch cord, 10-foot (delivered, no install)	\$
Provide (1) Floor mount enclosed equipment cabinet (as specified)	\$
Provide (1) 2" Conduit sleeve including coring, bushings, firestop	\$
Cabling Technician (Hourly Rate)	\$
Cabling Technician (Overtime Hourly Rate)	\$
Cabling Technician (Holiday Hourly Rate)	\$

END OF UNIT PRICE SHEET



00 4323 Alternates Form Project No.: 3221

Page 1

SECTION 00 4323 ALTERNATES FORM

PAR [®]	TICULARS	
1.01	THE FOLLOWING IS THE I	IST OF ALTERNATES REFERENCED IN THE BID SUBMITTED BY
1.02	(BIDDER)	
1.03	TO (OWNER): CRESTWO	OD SCHOOL DISTRICT
1.04	DATED	AND WHICH IS AN INTEGRAL PART OF THE BID FORM.
ALTE	ERNATES LIST	
2.01		TS SHALL BE ADDED TO OR DEDUCTED FROM THE BID OR EACH BID PACK. CONTRACTOR TO PROVIDE ONE (1) BID PACK SUBMITTED.
2.02	REFER TO SECTION 01 23	00-ALTERNATES FOR EACH ALTERNATE DESCRIPTION.
	ALTERNATE # 1 BOARD R	OOM IMPROVEMENTS: ADD / (DEDUCT) \$
		END OF SECTION

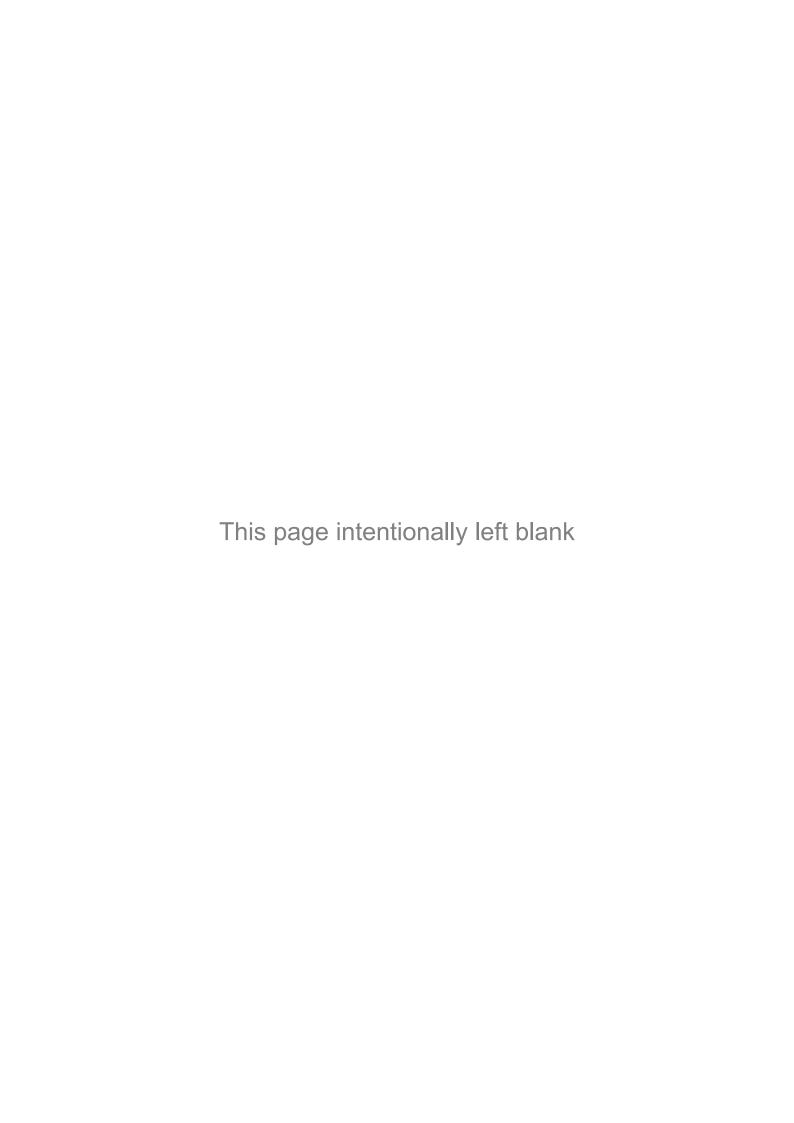


CONTRACTOR LIST & LIEN WAIVER CHECKLIST

CONTRACTOR:	DATE:
PROJECT:	APPLICATION NO.:

**LINE ITEM NO.	INVOICE Date	SUB-CONTRACTOR NAME	NET AMOUNT ON PREVIOUS	LIEN WAIVER		
NO.	DATE		APPLICATION	REQ'D	REC'I	

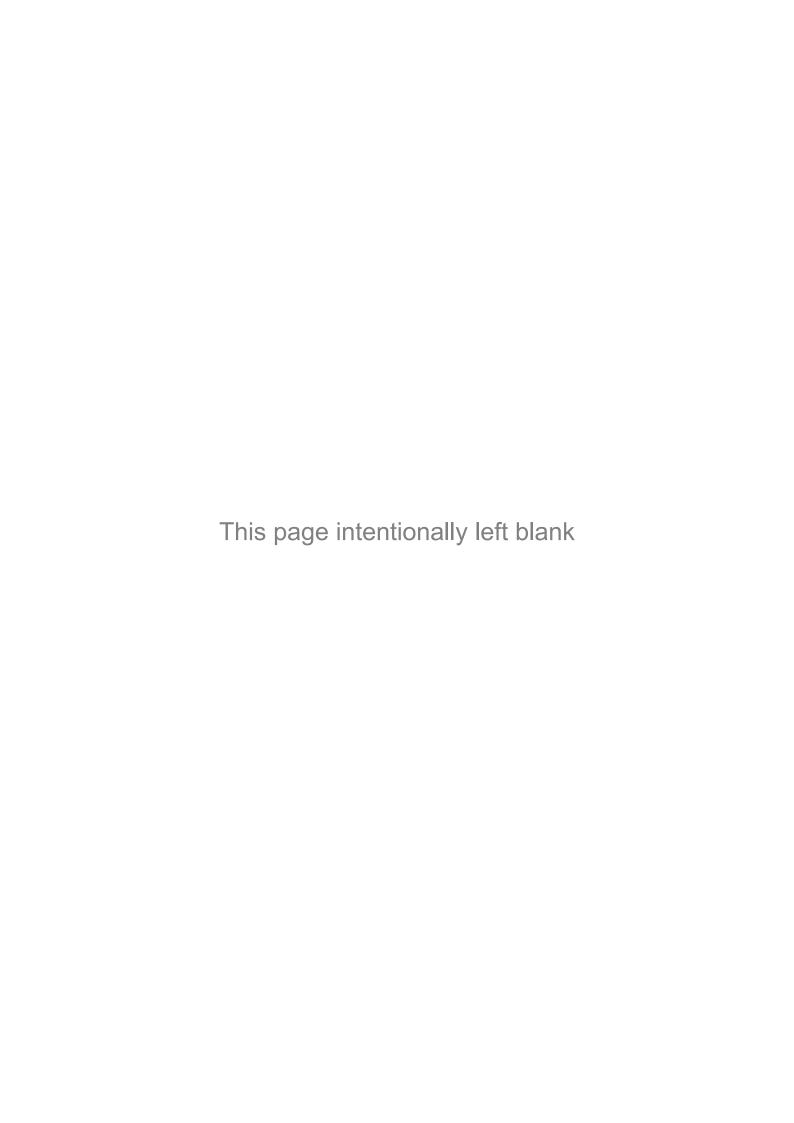
**If General Contractor is completing this form, please use cost breakdown line item numbers





SUBSTITUTION REQUEST (After the Bidding/Negotiating Phase)

Project:		Substitution Request Number:			
		From:			
To:		Date:			
		A/E Project N	umber:		
Re:		Contract For:			
Specification Title:		Description:			
Section: Page:		Article/Paraş	graph:		
Proposed Substitution:					
Manufacturer: Addre					
Trade Name:			_ Model No.: _		
Installer: Addre	ss:		Phone:		
History: ☐ New product ☐ 1-4 years old	l □ 5-10 years old	l ☐ More than 10	years old		
☐ Point-by-point comparative data attached — Reason for not providing specified item:	•				
Reason for not providing specified fiem:					
Similar Installation:					
Project:	Archite	ect:			
Address:	Owner	:			
	Date In	nstalled:			
Proposed substitution affects other parts of Wo	ork: 🗆 No 🗆	Yes; explain			
Savings to Owner for accepting substitution:				(\$).
Proposed substitution changes Contract Time:	□ No	□ Yes [Add]	[Deduct]		days.
Supporting Data Attached: Drawings	□ Product Data	☐ Samples	☐ Tests	□ Reports	



SUBSTITUTION REQUEST

(After the Bidding/Negotiating Phase — Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects. Submitted by: _ Signed by: Firm: Address: Telephone: Attachments: A/E's REVIEW AND RECOMMENDATION ☐ Approve Substitution - Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures. ☐ Approve Substitution as noted - Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures. ☐ Reject Substitution - Use specified materials. ☐ Substitution Request received too late - Use specified materials. Signed by: ___ Date: __ OWNER'S REVIEW AND ACTION □ Substitution approved - Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures. Prepare Change Substitution approved as noted - Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures. Prepare Change Order. ☐ Substitution rejected - Use specified materials. Signed by: ____

☐ Subcontractor

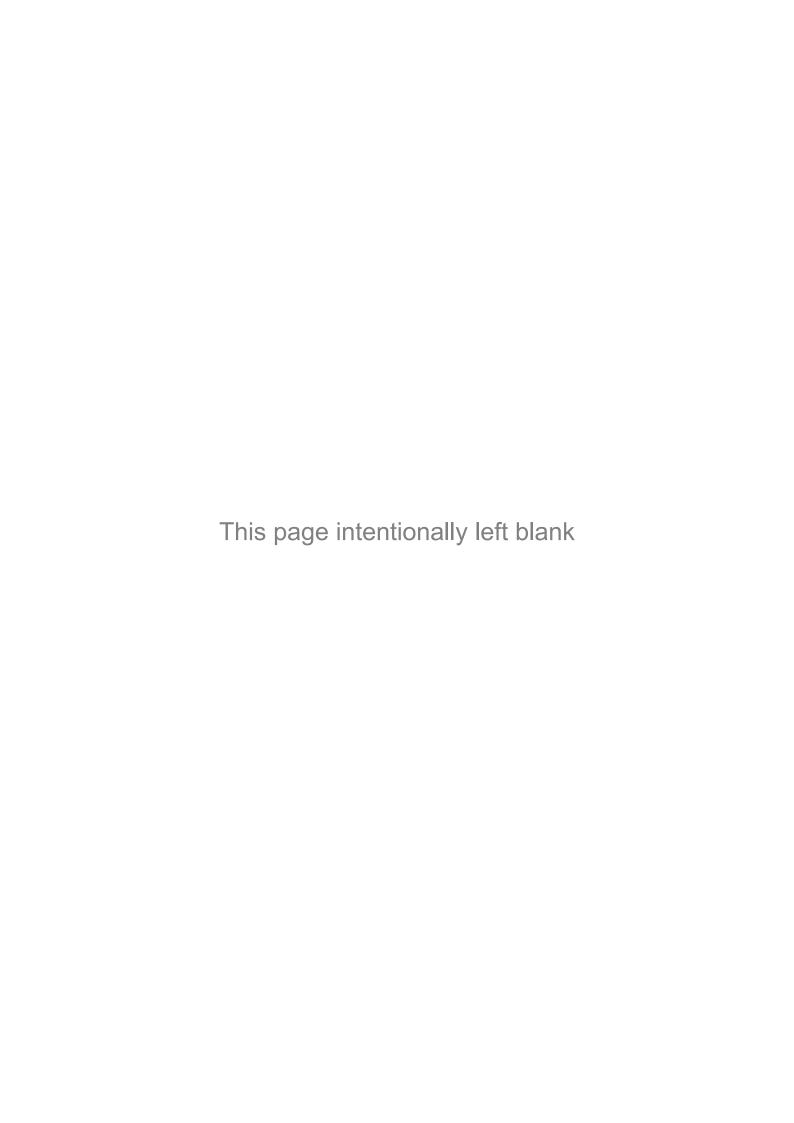
☐ Contractor

Additional Comments:

☐ Supplier

☐ Manufacturer

 \Box A/E



Page 1

CONTRACTOR LONG LEAD ITEM CHECKLIST

Date:	
Owner Name:	
Project Name:	
Architect's Project No.:	
Contractor:	

	SUB-CONTRACTOR	ANTICIPATED	AS OF (DATE):
ITEM DESCRIPTION	NAME	DELIVERY	

^{***} THIS FORM NEEDS TO UPDATED AND SUBMITTED WEEKLY ON MONDAYS.

